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## PRODUCT CATALOG

CYTOKINES | GROWTH FACTORS | INTERLEUKINS | CHEMOKINES

2016

**SHENANDOAH BIOTECHNOLOGY** began in April of 2006. Our home office and lab are conveniently located in Warwick, Pennsylvania, near Philadelphia. Our vision is to provide a superior source of recombinant cytokines for research applications to the academic, pharmaceutical and industrial world.

Our owners are dedicated scientists, just like you, who work in our lab. We understand your science and directly communicate with you. Shenandoah is a privately-held company that is designated as a National Certified Woman Business Enterprise in the United States.

At Shenandoah, we specialize in the manufacturing of recombinant proteins from E.coli. Our current product line is mainly focused on cytokines, chemokines, and growth factors typically used in a wide variety of research applications. We are dedicated to helping you with all areas of your research including cancer, stem cell biology, immunology, developmental biology, and many others. In addition to the products in our catalog, we provide services that are comprised of: inclusion body protein folding and purification, custom protein expression, and bulk (milligrams to grams) protein production of most products. We are your "One-Stop Protein Shop"!



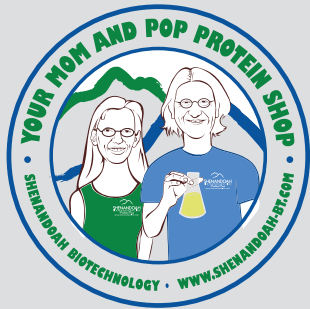
### Where did Shenandoah Biotechnology get our unique name?

For inquiring minds, it all started with two protein scientists starting their own biotechnology company in 2006. They really wanted a unique name for the company that would not only stand out among other biotechnology companies, but also have significance and personal meaning for them. With both owners being pet rescue enthusiasts, the story begins with the rescue of an 11-day-old baby kitten. She was a gorgeous, fire-engine-red, female, Maine Coon (a breed of cat) and she instantly stole everyone's heart. She was so stunningly beautiful that she was named after the Shenandoah Mountains of West Virginia and affectionately referred to as "Doah Doah." The kitten turned into an incredible, beautiful cat that loved life and having fun so it only seemed fitting to name the new company after her.

To continue to honor Doah Doah, Shenandoah Biotechnology donates \$2 per order to the Hurricane Pets Rescue (HPR). This is a nationwide, no-kill, non-profit rescue that provides shelter and care for the animals that become homeless because of a hurricane. For more information, here is their website: <http://www.hurricanepetsrescue.org/>

If you are ever in the Philadelphia area, please call us for a tour of our facility. You can meet our rescue cats that help run the office!

# MANUFACTURING AND SERVICES SUMMARY



## Company Summary

- Woman-owned business (WBENC certified)
- Small, fast-growing and responsive company
- All manufacturing occurs in the U.S.A. in Warwick, PA (northeast of Philadelphia)
- 10 years in business

## Manufacturing Capabilities:

- 5,000 square feet of lab space
- E.coli produced purified proteins
  - DNA cloning for bacterial expression
  - Bacterial inclusion body protein refolding
  - 5-liter, 20-liter, 80-liter bacterial fermentation capabilities for mg to gm quantities
  - Protein vialing and lyophilization
- Mammalian produced purified proteins
  - DNA cloning for mammalian expression
  - Creation of stable cell systems (HEK 293, COS and CHO cells)

## QA Testing Capabilities

- Sequence verification - mass spectrometry
- Quantitation and Purity - SDS PAGE, spectrometry, HPLC
- Bioactivity -cell based growth assays and chemotaxis studies
- Endotoxin -kinetic LAL down to 0.05 EU/ugof protein documentation

## Experience

- Repeat bulk production for small, medium and large pharmaceutical companies
- Fast turn-around time of 6 weeks for large fermentation and purification projects
- Collaborate with other small biotechnology companies for antibody and ELISA kit manufacturing

## Documentation Processes

- Batch record documentation, equipment logs, training logs
- Certificate of Analysis, Certificate of Origin and MSDS documentation

## REASONS TO BUY SHENANDOAH:

- 1 MADE IN THE USA
- 2 COMPETITIVE PRICES
- 3 OVERNIGHT SHIPPING
- 4 GREAT CUSTOMER SERVICE
- 5 WOMAN-OWNED
- 6 HIGH QUALITY PRODUCTS

# PRODUCT LISTING (ALPHABETICAL)

Catalog Name	Product Name	Size / Part #	Size / Part #	Size / Part #	Size / Part #	Size / Part #
Activin A	Human Activin A	2ug / 10787-592	10ug / 10787-588	100ug / 10787-586	500ug / 10821-852	1mg / 10787-590
Activin A (AF)	Human Activin A (AF)	2ug / 10787-600	10ug / 10787-596	100ug / 10787-594	500ug / 10821-854	1mg / 10787-598
Activin A	Mouse Activin A	2ug / 10788-040	10ug / 10788-036	100ug / 10788-034	500ug / 10821-856	1mg / 10788-038
Activin A	Mouse Activin A (AF)	2ug / 10788-776	10ug / 10788-772	100ug / 10788-042	500ug / 10821-858	1mg / 10788-774
Activin A	Rat Activin A	2ug / 10788-396	10ug / 10788-396	100ug / 10788-790	500ug / 10821-860	1mg / 10788-794
Activin A (AF)	Rat Activin A (AF)	2ug / 10788-404	10ug / 10788-400	100ug / 10788-398	500ug / 10821-862	1mg / 10788-402
Artemin	Human Artemin	5ug / 10788-728	20ug / 10788-726	100ug / 10789-134	500ug / 10821-912	1mg / 10789-124
BAFF	Human B-Cell Activating Factor	5ug / 10789-028	20ug / 10789-026	100ug / 10788-730	500ug / 10821-914	1mg / 10789-024
BCA-1 / CXCL13	Human Beta-cell Attracting Chemokine 1 (CXCL13)	5ug / 10787-480	20ug / 10787-478	100ug / 10787-474	500ug / 10821-916	1mg / 10787-476
BDNF	Human Brain Derived Neurotrophic Factor	2ug / 10788-822	10ug / 10788-818	100ug / 10788-816	500ug / 10821-918	1mg / 10788-820
BMP-2	Human Bone Morphogenetic Protein-2	2ug / 10787-654	10ug / 10789-054	100ug / 10789-052	500ug / 10821-920	1mg / 10787-652
CD40-Ligand	Human CD40 Ligand	10 ug / 10789-030	50ug / 10787-454	100ug / 10821-922	500ug / 10821-736	1mg / 10787-452
CD40-Ligand (AF)	Human CD40 Ligand (AF)	10ug / 10787-456	50ug / 10787-460	100ug / 10821-924	500ug / 10821-738	1mg / 10787-458
CD40-Ligand	Mouse CD40 Ligand	5ug / 10787-910	25ug / 10787-908	100ug / 10787-904	500ug / 10821-926	1mg / 10787-906
Chemerin	Human Chemerin	5ug / 10787-556	25ug / 10787-554	100ug / 10787-550	500ug / 10821-616	1mg / 10787-552
CNTF	Human Ciliary Neurotrophic Factor	5ug / 10787-684	20ug / 10787-682	100ug / 10787-678	500ug / 10821-618	1mg / 10787-680
CNTF (AF)	Human Ciliary Neurotrophic Factor (AF)	5ug / 10821-632	20ug / 10821-634	100ug / 10821-636	500ug / 10821-620	1mg / 10821-638
CTGF	Human Connective Tissue Growth Factor	5ug / 10787-692	20ug / 10787-690	100ug / 10787-686	500ug / 10821-622	1mg / 10787-688
EGF	Human Epidermal Growth Factor	100ug / 10787-462	500ug / 10787-466	1mg / 10787-464	(N/A)	5mg / 10821-740
EGF (AF)	Human Epidermal Growth Factor (AF)	100ug / 10787-468	500ug / 10787-472	1mg / 10787-470	(N/A)	5mg / 10821-742
EGF	Mouse Epidermal Growth Factor	100ug / 10788-222	500ug / 10788-226	1mg / 10788-224	(N/A)	5mg / 10821-744
EGF (AF)	Mouse Epidermal Growth Factor (AF)	100ug / 10788-228	500ug / 10788-232	1mg / 10788-230	(N/A)	5mg / 10821-746
EGF	Rat Epidermal Growth Factor	20ug / 10788-788	100ug / 10788-392	250ug / 10821-928	500ug / 10821-748	1mg / 10788-394
EGF Biotin Conj	Mouse EGF-Biotin Conjugate	5ug / 10788-564	20ug / 10788-566	(N/A)	(N/A)	(N/A)
EG-VEGF	Human Endocrine Gland Vascular Endothelial Growth Factor	5ug / 10787-106	20ug / 10787-104	100ug / 10787-100	500ug / 10821-930	1mg / 10787-102
ENA 78 / CXCL5	Human ENA 78 (CXCL5) 5-78aa	5ug / 10821-640	20ug / 10821-642	100ug / 10821-644	500ug / 10821-932	1mg / 10821-646
Eotaxin	Human Eotaxin (CCL11)	5ug / 10788-548	20ug / 10788-550	100ug / 10788-552	500ug / 10821-934	1mg / 10788-554
Eotaxin-3	Human Eotaxin-3 (CCL26)	5ug / 10788-556	20ug / 10788-558	100ug / 10788-560	500ug / 10821-936	1mg / 10788-562
Exodus-2	Mouse Exodus-2 (CCL21)	5ug / 10788-088	20ug / 10788-086	100ug / 10789-158	500ug / 10821-938	1mg / 10788-084
FGF-4	Human Fibroblast Growth Factor-4	5ug / 10787-512	25ug / 10787-510	100ug / 10787-506	500ug / 10821-940	1mg / 10787-508
FGF-7 / KGF	Human Fibroblast Growth Factor-7	2ug / 10821-648	10ug / 10821-650	100ug / 10821-652	500ug / 10821-942	1mg / 10821-654
FGF-7 / KGF (AF)	Human Fibroblast Growth Factor-7 (AF)	2ug / 10821-656	10ug / 10821-658	100ug / 10821-660	500ug / 10821-624	1mg / 10821-662
FGF-8	Human Fibroblast Growth Factor-8	5ug / 10788-568	25ug / 10788-570	100ug / 10788-572	500ug / 10821-626	1mg / 10788-574
FGF-8 (AF)	Human Fibroblast Growth Factor-8 (AF)	5ug / 10788-576	25ug / 10788-578	100ug / 10788-796	500ug / 10821-628	1mg / 10788-798
FGF-8	Mouse Fibroblast Growth Factor-8	5ug / 10788-800	25ug / 10788-802	100ug / 10788-804	500ug / 10821-630	1mg / 10788-806
FGF-8 (AF)	Mouse Fibroblast Growth Factor-8 (AF)	5ug / 10788-808	25ug / 10788-810	100ug / 10788-580	500ug / 10821-944	1mg / 10788-582
FGF-9	Mouse Fibroblast Growth Factor-9	2ug / 10789-080	10ug / 10787-928	100ug / 10787-926	500ug / 10821-946	1mg / 10787-930
FGF-9	Rat Fibroblast Growth Factor-9	2ug / 10788-498	10ug / 10788-494	100ug / 10788-492	500ug / 10821-948	1mg / 10788-496
FGF-10	Human Fibroblast Growth Factor-10	5ug / 10788-584	25ug / 10788-586	100ug / 10788-588	500ug / 10821-950	1mg / 10788-590

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FGF-10 (AF)	Human Fibroblast Growth Factor-10 (AF)	5ug / 10788-592	25ug / 10788-594	100ug / 10788-596	500ug / 10821-952	1mg / 10788-598
FGF-21	Human Fibroblast Growth Factor-21	5ug / 10787-354	20ug / 10787-352	100ug / 10787-348	500ug / 10821-954	1mg / 10787-350
FGF-22	Human Fibroblast Growth Factor-22	5ug / 10787-700	20ug / 10787-698	100ug / 10787-694	500ug / 10821-956	1mg / 10787-696
FGF-acidic / FGF-1	Human Fibroblast Growth Factor acidic	10ug / 10787-494	50ug / 10787-498	100ug / 10821-958	500ug / 10821-750	1mg / 10787-496
FGF-acidic / FGF-1	Mouse Fibroblast Growth Factor acidic	10ug / 10788-178	50ug / 10788-182	100ug / 10821-960	500 ug / 10821-752	1mg / 10788-180
FGF-basic / FGF-2	Mouse Fibroblast Growth Factor basic	10ug / 10787-920	50ug / 10787-924	100ug / 10821-962	500ug / 10821-754	1mg / 10787-922
FGF-basic / FGF-2	Rat Fibroblast Growth Factor-basic	10ug / 10788-366	50ug / 10788-370	100ug / 10821-964	500ug / 10821-756	1mg / 10788-368
FGF-basic / FGF-2 (AF)	Rat Fibroblast Growth Factor-basic (AF)	10ug / 10788-372	50ug / 10788-376	100ug / 10821-966	500ug / 10821-758	1mg / 10788-374
FGF-basic-147/FGF-2	Human Fibroblast Growth Factor 147 basic	10ug / 10787-482	50ug / 10787-486	100ug / 10821-968	500ug / 10821-760	1mg / 10787-484
FGF-basic-147/FGF-2 (AF)	Human Fibroblast Growth Factor 147 basic (AF)	10ug / 10787-488	50ug / 10787-492	100ug / 10821-970	500ug / 10821-762	1mg / 10787-490
FGF-basic-154/FGF-2	Human Fibroblast Growth Factor 154 basic	10ug / 10788-696	50ug / 10787-332	100ug / 10821-972	500ug / 10821-764	1mg / 10788-698
FGF-basic-154/FGF-2 (AF)	Human Fibroblast Growth Factor 154 basic (AF)	10ug / 10787-334	50ug / 10787-338	100ug / 10821-974	500ug / 10821-766	1mg / 10787-336
FLT-3 Ligand	Human Flt-3 Ligand	2ug / 10789-020	10ug / 10789-016	100ug / 10789-014	500ug / 10821-976	1mg / 10789-018
FLT-3 Ligand (AF)	Human Flt-3 Ligand (AF)	2ug / 10787-448	10ug / 10787-444	100ug / 10789-022	500ug / 10821-978	1mg / 10787-446
FLT-3 Ligand	Mouse Flt-3 Ligand	2ug / 10787-870	10ug / 10787-866	100ug / 10787-864	500ug / 10821-980	1mg / 10787-868
Follistatin	Human Follistatin	5ug / 10789-036	20ug / 10789-034	100ug / 10787-578	500ug / 10821-982	1mg / 10789-032
Follistatin	Mouse Follistatin	5ug / 10788-002	20ug / 10788-000	100ug / 10787-996	500ug / 10821-984	1mg / 10787-998
Fractalkine	Human Fractalkine (CX3CL1)	5ug / 10788-964	20ug / 10788-962	100ug / 10788-958	500ug / 10821-986	1mg / 10788-960
ACRP-30	Human Globular (ACRP-30)	5ug / 10787-376	25ug / 10787-374	100ug / 10787-370	500ug / 10821-988	1mg / 10787-372
Galectin-1	Human Galectin-1	10ug / 10787-500	50ug / 10787-504	100ug / 10821-990	500ug / 10821-808	1mg / 10787-502
Galectin-3	Human Galectin-3	10ug / 10787-364	50ug / 10787-368	100ug / 10821-992	500ug / 10821-810	1mg / 10787-366
G-CSF	Human Granulocyte Colony Stimulating Factor	2ug / 10787-714	10ug / 10787-710	100ug / 10787-708	500ug / 10821-994	1mg / 10787-712
G-CSF (AF)	Human Granulocyte Colony Stimulating Factor (AF)	2ug / 10821-664	10ug / 10821-666	100ug / 10821-668	500ug / 10821-996	1mg / 10821-670
G-CSF	Mouse Granulocyte Colony Stimulating Factor	2ug / 10787-932	10ug / 10789-084	100ug / 10789-082	500ug / 10821-998	1mg / 10789-086
GDF-5	Human Growth and Differentiation Factor-5	10ug / 10787-702	50ug / 10787-706	100ug / 10822-000	500ug / 10821-812	1mg / 10787-704
GDF-11	Human Growth and Differentiation Factor-11	5ug / 10788-600	20ug / 10788-602	100ug / 10788-604	500ug / 10822-002	1mg / 10788-606
GDF-11 (AF)	Human Growth and Differentiation Factor-11 (AF)	5ug / 10788-608	20ug / 10788-610	100ug / 10788-612	500ug / 10822-004	1mg / 10788-614
GDF-15	Human Growth and Differentiation Factor-15	5ug / 10788-940	20ug / 10788-938	100ug / 10788-934	500ug / 10822-006	1mg / 10788-936
GDF-15 (D)	Human Growth & Differentiation Factor-15 (D variant)	5ug / 10788-948	20ug / 10788-946	100ug / 10788-942	500ug / 10822-008	1mg / 10788-944
GDNF	Human Glial Derived Neurotrophic Factor	2ug / 10788-830	10ug / 10788-826	100ug / 10788-824	500ug / 10822-010	1mg / 10788-828
GDNF (AF)	Human Glial Derived Neurotrophic Factor (AF)	2ug / 10821-672	10ug / 10821-674	100ug / 10821-676	500ug / 10822-012	1mg / 10821-678
GDNF	Mouse Glial Derived Neurotrophic Factor	2ug / 10788-112	10ug / 10788-108	100ug / 10788-106	500ug / 10822-014	1mg / 10788-110
GDNF (AF)	Mouse Glial Derived Neurotrophic Factor (AF)	2ug / 10788-120	10ug / 10788-116	100ug / 10788-114	500ug / 10822-016	1mg / 10788-118
GDNF	Rat Glial Derived Neurotrophic Factor	2ug / 10788-436	10ug / 10788-432	100ug / 10788-430	500ug / 10822-018	1mg / 10788-434
GDNF (AF)	Rat Glial Derived Neurotrophic Factor (AF)	2ug / 10789-096	10ug / 10788-440	100ug / 10788-438	500ug / 10822-020	1mg / 10788-442
GM-CSF	Human Granulocyte Macrophage Colony Stimulating Factor	5ug / 10787-114	20ug / 10787-112	100ug / 10787-108	500ug / 10822-022	1mg / 10787-110
GM-CSF (AF)	Human Granulocyte Macrophage Colony Stimulating Factor (AF)	5ug / 10787-122	20ug / 10787-120	100ug / 10787-116	500ug / 10822-024	1mg / 10787-118
GM-CSF	Mouse Granulocyte Macrophage Colony Stimulating Factor	5ug / 10787-940	20ug / 10787-938	100ug / 10787-934	500ug / 10822-026	1mg / 10787-936
GM-CSF (AF)	Mouse Granulocyte Macrophage Colony Stimulating Factor (AF)	5ug / 10787-948	20ug / 10787-946	100ug / 10787-942	500ug / 10822-028	1mg / 10787-944

Catalog Name	Product Name	Size / Part #	Size / Part #	Size / Part #	Size / Part #	Size / Part #
GM-CSF	Rat Granulocyte Macrophage Colony Stimulating Factor	5ug / 10788-384	20ug / 10788-382	100ug / 10788-378	500ug / 10822-030	1mg / 10788-380
Growth Hormone	Human Growth Hormone	100ug / 10787-576	500ug / 10787-574	1mg / (N/A)	5mg / 10787-576	10mg / 10821-814
Gro- $\alpha$ / CXCL-1	Human Gro-alpha (CXCL-1)	5ug / 10787-520	25ug / 10787-518	100ug / 375 / 10787-514	500ug / 10822-034	1mg / 10787-516
Gro- $\alpha$ / CXCL-1	Mouse Gro-alpha (CXCL-1)	5ug / 10787-994	20ug / 10787-992	100ug / 375 / 10787-988	500ug / 10822-036	1mg / 10787-990
Gro- $\beta$ / CXCL-2	Human Gro-beta (CXCL-2)	2ug / 10787-226	10ug / 10787-222	100ug / 375 / 10787-220	500ug / 10822-038	1mg / 10787-224
Gro- $\gamma$ / MIP-2 $\beta$ / CXCL-3	Human Gro-g / Macrophage Inflammatory Protein-2 beta	2ug / 10788-924	10ug / 10788-920	100ug / 375 / 10788-918	500ug / 10822-040	1mg / 10788-922
HB-EGF	Human Heparin Binding EGF-like Growth Factor	10ug / 10788-616	50ug / 10788-618	100ug / 270 / 10822-042	500ug / 10821-816	1mg / 10788-620
HB-EGF (AF)	Human Heparin Binding EGF-like Growth Factor (AF)	10ug / 10788-622	50ug / 10788-624	100ug / 295 / 10822-044	500ug / 10821-818	1mg / 10788-626
IFN- $\alpha$ 2a	Human Interferon-alpha 2a	20ug / 10787-660	100ug / 10787-656	250ug / 310 / 10822-046	500ug / 10821-820	1mg / 10787-658
IFN- $\alpha$ 2b	Human Interferon-alpha 2b	20ug / 10789-050	100ug / 10789-048	250ug / 310 / 10822-048	500ug / 10821-822	1mg / 10789-046
INF- $\gamma$	Human Interferon-gamma	20ug / 10787-720	100ug / 10787-716	250ug / 345 / 10822-050	500ug / 10821-824	1mg / 10787-718
INF- $\gamma$ (AF)	Human Interferon-gamma (AF)	20ug / 10821-568	100ug / 10821-570	250ug / 380 / 10822-052	500ug / 10821-826	1mg / 10821-574
INF- $\gamma$	Mouse Interferon-gamma	20ug / 10787-954	100ug / 10787-950	250ug / 345 / 10822-054	500ug / 10821-828	1mg / 10787-952
INF- $\gamma$	Rat Interferon-gamma	20ug / 10788-390	100ug / 10788-386	250ug / 345 / 10822-056	500ug / 10821-830	1mg / 10788-388
IGF-1	Human Insulin-like Growth Factor 1	20ug / 10787-534	100ug / 10787-530	1mg / (N/A)	(N/A)	5mg / 10821-896
IGF-1 (AF)	Human Insulin-like Growth Factor 1 (AF)	20ug / 10787-540	100ug / 10787-536	1mg / (N/A)	(N/A)	5mg / 10821-898
IGF-1	Mouse Insulin-like Growth Factor 1	10ug / 10787-858	50ug / 10787-862	100ug / 10822-058	500ug / 10821-900	1mg / 10787-860
IGF-1	Rat Insulin-like Growth Factor 1	10ug / 10788-360	50ug / 10788-364	100ug / 10822-060	500ug / 10821-902	1mg / 10788-362
IGF-II	Human Insulin-like Growth Factor II	10ug / 10787-306	50ug / 10787-310	100ug / 10822-062	500ug / 10821-832	1mg / 10787-308
IHH	Human Indian Hedgehog	5ug / 10788-628	25ug / 10788-630	100ug / 10788-632	500ug / 10822-064	1mg / 10788-634
IHH (AF)	Human Indian Hedgehog (AF)	5ug / 10788-636	25ug / 10788-638	100ug / 10788-640	500ug / 10822-066	1mg / 10788-642
IHH	Mouse Indian Hedgehog	5ug / 10788-644	25ug / 10788-646	100ug / 10788-648	500ug / 10822-068	1mg / 10788-650
IHH (AF)	Mouse Indian Hedgehog (AF)	5ug / 10788-652	25ug / 10788-654	100ug / 10788-656	500ug / 10822-070	1mg / 10788-658
IL-1 $\alpha$ / IL-1F1	Human Interleukin-1-alpha	2ug / 10788-956	10ug / 10788-952	100ug / 10788-950	500ug / 10822-072	1mg / 10788-954
IL-1 $\beta$	Human Interleukin-1-beta	2ug / 10788-884	10ug / 10788-880	100ug / 10788-722	500ug / 10822-074	1mg / 10788-882
IL-1 $\beta$ (AF)	Human Interleukin-1-beta (AF)	2ug / 10788-892	10ug / 10788-888	100ug / 10788-886	500ug / 10822-076	1mg / 10788-890
IL-1 $\beta$	Mouse Interleukin-1-beta	2ug / 10788-334	10ug / 10788-330	100ug / 10788-328	500ug / 10822-078	1mg / 10788-332
IL-1 $\beta$	Rat Interleukin-1-beta	2ug / 10788-522	10ug / 10788-518	100ug / 10788-516	500ug / 10822-080	1mg / 10788-520
IL-2	Human Interleukin-2	10ug / 10787-214	50ug / 10787-218	100ug / 10822-082	500ug / 10821-834	1mg / 10787-216
IL-2 (AF)	Human Interleukin-2 (AF)	10ug / 10787-236	50ug / 10787-240	100ug / 10822-084	500ug / 10821-836	1mg / 10787-238
IL-2	Mouse Interleukin-2	5ug / 10788-770	20ug / 10788-768	100ug / 10788-764	500ug / 10822-086	1mg / 10788-766
IL-3	Human Interleukin-3	2ug / 10787-728	10ug / 10787-724	100ug / 10787-722	500ug / 10822-088	1mg / 10787-726
IL-3 (AF)	Human Interleukin-3 (AF)	2ug / 10789-060	10ug / 10789-056	100ug / 10787-730	500ug / 10822-090	1mg / 10789-058
IL-3	Mouse Interleukin-3	2ug / 10787-840	10ug / 10787-836	100ug / 10787-834	500ug / 10822-092	1mg / 10787-838
IL-3 (AF)	Mouse Interleukin-3 (AF)	2ug / 10789-068	10ug / 10789-064	100ug / 10787-842	500ug / 10822-094	1mg / 10789-066
IL-4	Human Interleukin-4	5ug / 10787-130	20ug / 10787-128	100ug / 10787-124	500ug / 10822-096	1mg / 10787-126
IL-4 (AF)	Human Interleukin-4 (AF)	5ug / 10787-138	20ug / 10787-136	100ug / 10787-132	500ug / 10822-098	1mg / 10787-134
IL-4	Mouse Interleukin-4	5ug / 10789-142	20ug / 10789-13	100ug / 10789-136	500ug / 10822-100	1mg / 10789-140
IL-4 (AF)	Mouse Interleukin-4 (AF)	5ug / 10789-150	20ug / 10789-146	100ug / 10789-144	500ug / 10822-102	1mg / 10789-148

Catalog Name	Product Name	Size / Part #	Size / Part #	Size / Part #	Size / Part #	Size / Part #
IL-5	Human Interleukin-5	2ug / 10821-576	10ug / 10821-578	100ug / 10821-580	500ug / 10822-104	1mg / 10821-582
IL-5 (AF)	Human Interleukin-5 (AF)	2ug / 10821-680	10ug / 10821-682	100ug / 10821-684	500ug / 10822-106	1mg / 10821-686
IL-5	Mouse Interleukin-5	5ug / 10787-970	25ug / 10787-968	100ug / 10787-964	500ug / 10822-108	1mg / 10787-966
IL-5 (AF)	Mouse Interleukin-5 (AF)	5ug / 10789-104	25ug / 10789-106	100ug / 10789-108	500ug / 10822-110	1mg / 10789-110
IL-6	Human Interleukin-6	5ug / 10787-146	20ug / 10787-144	100ug / 10787-140	500ug / 10822-112	1mg / 10787-142
IL-6 (AF)	Human Interleukin-6 (AF)	5ug / 10787-170	20ug / 10787-168	100ug / 10787-164	500ug / 10822-114	1mg / 10787-166
IL-6	Mouse Interleukin-6	2ug / 10789-076	10ug / 10789-072	100ug / 10789-070	500ug / 10822-116	1mg / 10789-074
IL-6	Rat Interleukin-6	2ug / 10788-420	10ug / 10788-416	100ug / 10788-414	500ug / 10822-118	1mg / 10788-418
IL-6 (AF)	Rat Interleukin-6 (AF)	2ug / 10788-428	10ug / 10788-424	100ug / 10788-422	500ug / 10822-120	1mg / 10788-426
IL-7	Human Interleukin-7	2ug / 10787-178	10ug / 10787-174	100ug / 10787-172	500ug / 10822-122	1mg / 10787-176
IL-7	Mouse Interleukin-7	2ug / 10787-848	10ug / 10787-844	100ug / 10789-078	500ug / 10822-124	1mg / 10787-846
IL-8 / CXCL8	Human Interleukin-8 (CXCL8)	5ug / 10788-966	25ug / 10788-968	100ug / 10788-970	500ug / 10822-126	1mg / 10788-972
IL-9	Human Interleukin-9	2ug / 10787-736	10ug / 10787-732	100ug / 10789-062	500ug / 10822-128	1mg / 10787-734
IL-9	Mouse Interleukin-9	2ug / 10787-962	10ug / 10787-958	100ug / 10787-956	500ug / 10822-130	1mg / 10787-960
IL-10	Human Interleukin-10	2ug / 10787-744	10ug / 10787-742	100ug / 10787-738	500ug / 10822-132	1mg / 10787-740
IL-10 (AF)	Human Interleukin-10 (AF)	2ug / 10787-752	10ug / 10787-748	100ug / 10787-746	500ug / 10822-134	1mg / 10787-750
IL-11	Human Interleukin-11	2ug / 10787-760	10ug / 10787-756	100ug / 10787-754	500ug / 10822-136	1mg / 10787-758
IL-11	Mouse Interleukin-11	2ug / 10788-310	10ug / 10788-306	100ug / 10788-304	500ug / 10822-138	1mg / 10788-308
IL-11 (AF)	Mouse Interleukin-11 (AF)	2ug / 10788-318	10ug / 10788-314	100ug / 10788-312	500ug / 10822-140	1mg / 10788-316
IL-12	Mouse Interleukin-12	2ug / 10788-010	10ug / 10788-006	100ug / 10788-004	500ug / 10822-142	1mg / 10788-008
IL-13	Human Interleukin-13	2ug / 10788-752	10ug / 10788-748	100ug / 10787-762	500ug / 10822-144	1mg / 10788-750
IL-13	Mouse Interleukin-13	2ug / 10787-986	10ug / 10787-982	100ug / 10787-980	500ug / 10822-146	1mg / 10787-984
IL-15	Human Interleukin-15	2ug / 10787-768	10ug / 10787-764	100ug / 10788-754	500ug / 10822-148	1mg / 10787-766
IL-15	Mouse Interleukin-15	2ug / 10787-878	10ug / 10787-874	100ug / 10787-872	500ug / 10822-150	1mg / 10787-876
IL-15 (AF)	Mouse Interleukin-15 (AF)	2ug / 10787-886	10ug / 10787-882	100ug / 10787-880	500ug / 10822-152	1mg / 10787-884
IL-16	Human Interleukin-16	2ug / 10787-326	10ug / 10787-322	100ug / 10787-320	500ug / 10822-154	1mg / 10787-324
IL-16	Mouse Interleukin-16	2ug / 10788-190	10ug / 10788-186	100ug / 10788-184	500ug / 10822-156	1mg / 10788-188
IL-17A	Human Interleukin-17A	5ug / 10787-776	25ug / 10787-774	100ug / 10787-770	500ug / 10822-158	1mg / 10787-772
IL-17A	Mouse Interleukin-17A	5ug / 10788-270	25ug / 10788-268	100ug / (N/A)	500ug / 10822-160	1mg / 10788-266
IL-17A	Rat Interleukin-17A	5ug / 10788-474	25ug / 10788-472	100ug / 10788-468	500ug / 10822-162	1mg / 10788-470
IL-17AF	Human Interleukin-17AF Heterodimer	5ug / 10787-408	25ug / 10787-406	100ug / 10787-402	500ug / 10822-164	1mg / 10787-404
IL-17AF	Mouse Interleukin-17AF Heterodimer	5ug / 10788-286	25ug / 10788-284	100ug / 10788-280	500ug / 10822-166	1mg / 10788-282
IL-17AF	Rat Interleukin-17AF Heterodimer	5ug / 10788-514	25ug / 10788-512	100ug / 10788-508	500ug / 10822-168	1mg / 10788-510
IL-17E / IL-25	Human Interleukin-17E (IL-25)	5ug / 10787-362	25ug / 10787-360	100ug / 10787-356	500ug / 10822-170	1mg / 10787-358
IL-17E / IL-25	Mouse Interleukin-17E (IL-25)	5ug / 10788-278	25ug / 10788-276	100ug / 10788-272	500ug / 10822-172	1mg / 10788-274
IL-17E / IL-25 (AF)	Mouse Interleukin-17E (IL-25) (AF)	5ug / 10821-592	25ug / 10821-594	100ug / 10821-596	500ug / 10822-174	1mg / 10821-598
IL-17E / IL-25	Rat Interleukin-17E (IL-25)	2ug / 10788-482	10ug / 10788-478	100ug / 10788-476	500ug / 10822-176	1mg / 10788-480
IL-17F	Human Interleukin-17F	5ug / 10788-714	25ug / 10788-712	100ug / 10788-708	500ug / 10822-178	1mg / 10788-710
IL-17F	Mouse Interleukin-17F	5ug / 10788-294	25ug / 10788-292	100ug / 10788-288	500ug / 10822-180	1mg / 10788-290
IL-17F (AF)	Mouse Interleukin-17F (AF)	5ug / 10821-704	25ug / 10821-706	100ug / 10821-708	500ug / 10822-182	1mg / 10821-710
IL-17F	Rat Interleukin-17F	5ug / 10788-506	25ug / 10788-504	100ug / 10788-500	500ug / 10822-184	1mg / 10788-502
IL-19	Human Interleukin-19	2ug / 10787-784	10ug / 10787-780	100ug / 10787-778	500ug / 10822-186	1mg / 10787-782

Catalog Name	Product Name	Size / Part #	Size / Part #	Size / Part #	Size / Part #	Size / Part #
IL-19 (AF)	Human Interleukin-19 (AF)	2ug / 10787-792	10ug / 10787-788	100ug / 10787-786	500ug / 10822-188	1mg / 10787-790
IL-19	Mouse Interleukin-19	2ug / 10821-776	10ug / 10821-778	100ug / 10821-780	500ug / 10822-190	1mg / 10821-782
IL-19 (AF)	Mouse Interleukin-19 (AF)	2ug / 10821-784	10ug / 10821-786	100ug / 10821-788	500ug / 10822-192	1mg / 10821-790
IL-20	Human Interleukin-20	2ug / 10787-800	10ug / 10787-796	100ug / 10787-794	500ug / 10822-194	1mg / 10787-798
IL-21	Human Interleukin-21	2ug / 10787-808	10ug / 10787-804	100ug / 10787-802	500ug / 10822-196	1mg / 10787-806
IL-21 (AF)	Human Interleukin-21 (AF)	2ug / 10787-816	10ug / 10787-812	100ug / 10787-810	500ug / 10822-198	1mg / 10787-814
IL-21	Mouse Interleukin-21	2ug / 10788-350	10ug / 10788-346	100ug / 10788-344	500ug / 10822-200	1mg / 10788-348
IL-22	Human Interleukin-22	2ug / 10787-824	10ug / 10787-820	100ug / 10787-818	500ug / 10822-202	1mg / 10787-822
IL-22	Mouse Interleukin-22	2ug / 10821-600	10ug / 10821-602	100ug / 10821-604	500ug / 10822-204	1mg / 10821-606
IL-22 (AF)	Mouse Interleukin-22 (AF)	2ug / 10821-792	10ug / 10821-794	100ug / 10821-796	500ug / 10822-206	1mg / 10821-798
EBI3sub (IL-27/IL-35)	Human Epstein-Barr Virus Induced Gene 3	5ug / 10787-416	10ug / 10787-414	100ug / 10787-410	500ug / 10822-208	1mg / 10787-412
EBI3sub (IL-27/IL-35) (AF)	Human Epstein-Barr Virus Induced Gene 3 (AF)	5ug / 10787-424	10ug / 10787-422	100ug / 10787-418	500ug / 10822-210	1mg / 10787-420
EBI3sub (IL-27/IL-35)	Mouse Epstein-Barr Virus Induced Gene 3	2ug / 10788-256	10ug / 10788-252	100ug / 10788-250	500ug / 10822-212	1mg / 10788-254
p28 sub (IL-27)	Mouse Interleukin-27 (p28)	2ug / 10788-198	10ug / 10788-194	100ug / 10788-192	500ug / 10822-214	1mg / 10788-196
p28 sub (IL-27) (AF)	Mouse Interleukin-27 (p28) (AF)	2ug / 10788-206	10ug / 10788-202	100ug / 10788-200	500ug / 10822-216	1mg / 10788-204
IL-29	Human Interleukin-29	5ug / 10788-908	20ug / 10788-906	100ug / 10788-902	500ug / 10822-218	1mg / 10788-904
IL-31	Mouse Interleukin-31	2ug / 10788-358	10ug / 10788-354	100ug / 10788-352	500ug / 10822-220	1mg / 10788-356
IL-32 $\alpha$	Human Interleukin-32 alpha	2ug / 10788-870	10ug / 10788-866	100ug / 10788-864	500ug / 10822-222	1mg / 10788-868
IL-33	Human Interleukin-33	2ug / 10788-694	10ug / 10787-330	100ug / 10787-328	500ug / 10822-224	1mg / 10788-692
IL-33	Mouse Interleukin-33	2ug / 10788-096	10ug / 10788-092	100ug / 10788-090	500ug / 10822-226	1mg / 10788-094
IL-33 (AF)	Mouse Interleukin-33 (AF)	2ug / 10788-104	10ug / 10788-100	100ug / 10788-098	500ug / 10822-228	1mg / 10788-102
IL-35	Human Interleukin-35 Heterodimer	2ug / 10821-838	10ug / 10787-648	100ug / 10787-646	(N/A)	(N/A)
IP-10 / CXCL10	Human IP-10 (CXCL10)	5ug / 10787-234	25ug / 10787-232	100ug / 10787-228	500ug / 10822-230	1mg / 10787-230
IP-10 / CXCL10	Mouse IP-10 (CXCL10)	5ug / 10788-128	25ug / 10788-126	100ug / 10788-122	500ug / 10822-232	1mg / 10788-124
IP-10 / CXCL10	Guinea Pig IP-10 (CXCL10)	5ug / (N/A)	25ug / (N/A)	100ug / (N/A)	500ug / 10822-234	1mg / (N/A)
ITAC / CXCL11	Human ITAC (CXCL11)	5ug / 10788-690	20ug / 10788-688	100ug / 10788-684	500ug / 10822-236	1mg / 10788-686
Leptin	Human Leptin	200ug / 10787-560	1mg / 10787-558	5mg / 10787-562	10mg / 10821-840	(N/A)
Leptin	Mouse Leptin	200ug / 10788-014	1mg / 10788-012	5mg / 10788-016	10mg / 10821-842	(N/A)
Leptin	Rat Leptin	200ug / 10789-100	1mg / 10789-098	5mg / 10789-102	10mg / 10821-844	(N/A)
LIF	Human Leukemia Inhibitory Factor	5ug / 10787-636	25ug / 10787-634	100ug / 10787-630	500ug / 10822-238	1mg / 10787-632
LIF (AF)	Human Leukemia Inhibitory Factor (AF)	5ug / 10787-644	25ug / 10787-642	100ug / 10787-638	500ug / 10822-240	1mg / 10787-640
LIF	Mouse Leukemia Inhibitory Factor	5ug / 10788-072	20ug / 10788-070	100ug / 10788-066	500ug / 10822-242	1mg / 10788-068
LIF (AF)	Mouse Leukemia Inhibitory Factor (AF)	5ug / 10788-080	20ug / 10788-078	100ug / 10788-074	500ug / 10822-244	1mg / 10788-076
MCP-1 / CCL2	Human Monocyte Chemotactic Protein-1 (CCL2)	5ug / 10788-848	20ug / 10788-850	100ug / 10787-250	500ug / 10822-246	1mg / 10788-852
MCP-1 / CCL2	Mouse Monocyte Chemotactic Protein-1 (CCL2)	2ug / 10788-136	10ug / 10788-132	100ug / 10788-130	500ug / 10822-248	1mg / 10788-134
MCP-1 / CCL2	Rat Monocyte Chemotactic Protein-1 (CCL2)	2ug / 10788-458	10ug / 10788-454	100ug / 10788-452	500ug / 10822-250	1mg / 10788-456
MCP-2 / CCL8	Human Monocyte Chemotactic Protein-2 (CCL8)	2ug / 10787-248	10ug / 10787-244	100ug / 10787-242	500ug / 10822-252	1mg / 10787-246
MCP-2 / CCL8	Mouse Monocyte Chemotactic Protein-2 (CCL8)	5ug / 10788-302	20ug / 10788-298	100ug / 10788-296	500ug / 10822-254	1mg / 10788-300



Catalog Name	Product Name	Size / Part #	Size / Part #	Size / Part #	Size / Part #	Size / Part #
MCP-3 / CCL7	Human Monocyte Chemotactic Protein-3 (CCL7)	2ug / 10788-860	10ug / 10788-856	100ug / 10788-854	500ug / 10822-256	1mg / 10788-858
MCP-3 / CCL7	Mouse Monocyte Chemotactic Protein-3 (CCL7)	2ug / 10788-144	10ug / 10788-140	100ug / 10788-138	500ug / 10822-258	1mg / 210788-142
MCP-3 / CCL7	Rat Monocyte Chemotactic Protein-3 (CCL7)	2ug / 10788-412	10ug / 10788-408	100ug / 10788-406	500ug / 10822-260	1mg / 10788-410
MCP-3 / CCL7	Human Monocyte Chemotactic Protein-4 (CCL13)	5ug / 10787-256	20ug / 10787-254	100ug / 10788-862	500ug / 10822-262	1mg / 10787-252
M-CSF	Human Macrophage Colony Stimulating Factor	2ug / 10788-838	10ug / 10788-834	100ug / 10788-832	500ug / 10822-264	1mg / 10788-836
M-CSF (AF)	Human Macrophage Colony Stimulating Factor (AF)	2ug / 10787-066	10ug / 10787-062	100ug / 10787-060	500ug / 10822-266	1mg / 10787-064
M-CSF	Mouse Macrophage Colony Stimulating Factor	2ug / 10787-894	10ug / 10787-890	100ug / 10787-888	500ug / 10822-268	1mg / 10787-892
M-CSF (AF)	Mouse Macrophage Colony Stimulating Factor (AF)	2ug / 10788-758	10ug / 10787-898	100ug / 10787-896	500ug / 10822-270	1mg / 10788-756
M-CSF	Rat Macrophage Colony Stimulating Factor	2ug / 10821-720	10ug / 10821-722	100ug / 10821-724	500ug / 10822-272	1mg / 10821-726
M-CSF (AF)	Rat Macrophage Colony Stimulating Factor (AF)	2ug / 10821-728	10ug / 10821-730	100ug / 10821-732	500ug / 10822-274	1mg / 10821-734
MIF	Human Migration Inhibitory Factor	5ug / 10788-878	25ug / 10788-876	100ug / 10788-872	500ug / 10822-276	1mg / 10788-874
MIF	Mouse Migration Inhibitory Factor	5ug / 10821-800	25ug / 10821-802	100ug / 10821-804	500ug / 10822-278	1mg / 10821-806
MIF (AF)	Mouse Migration Inhibitory Factor (AF)	5ug / 10821-608	25ug / 10821-610	100ug / 10821-612	500ug / 10822-280	1mg / 10821-614
MIG / CXCL9	Human Monokine Induced by Gamma Interferon / CXCL9	5ug / 10821-688	20ug / 10821-690	100ug / 10821-692	500ug / 10822-282	1mg / 10821-694
MIP-1 $\alpha$ / CCL3	Human Macrophage Inflammatory Protein-1 alpha (CCL3)	5ug / 10788-700	20ug / 10788-706	100ug / 310788-702	500ug / 10822-284	1mg / 10788-704
MIP-1 $\alpha$ / CCL3	Mouse Macrophage Inflammatory Protein-1 alpha (CCL3)	2ug / 10788-152	10ug / 10788-148	100ug / 10788-146	500ug / 10822-286	1mg / 10788-150
MIP-1 $\alpha$ / CCL3	Rat Macrophage Inflammatory Protein-1 alpha (CCL3)	5ug / 10788-466	20ug / 10788-464	100ug / 10788-460	500ug / 10822-288	1mg / 10788-462
MIP-1 $\beta$ / CCL4	Human Macrophage Inflammatory Protein-1 beta (CCL4)	2ug / 10787-264	10ug / 10787-260	100ug / 10787-258	500ug / 10822-290	1mg / 10787-262
MIP-1 $\beta$ / CCL4	Mouse Macrophage Inflammatory Protein-1 beta (CCL4)	2ug / 10789-164	10ug / 10789-160	100ug / 10788-154	500ug / 10822-292	1mg / 10789-162
MIP-3 $\alpha$ / CCL20	Human Macrophage Inflammatory Protein-1 alpha (CCL20)	5ug / 10787-346	20ug / 10787-344	100ug / 10787-340	500ug / 10822-294	1mg / 10787-342
MIP-3 $\alpha$ / CCL20	Mouse Macrophage Inflammatory Protein-1 alpha (CCL20)	5ug / 10788-214	20ug / 10788-212	100ug / 10788-208	500ug / 10822-296	1mg / 10788-210
MIP-3 $\beta$ / CCL19	Human Macrophage Inflammatory Protein-1 beta (CCL19)	5ug / 10787-272	20ug / 10787-270	100ug / 10787-266	500ug / 10822-298	1mg / 10787-268
MIP-3 $\beta$ / CCL19	Mouse Macrophage Inflammatory Protein-1 beta (CCL19)	5ug / 10788-160	20ug / 10788-158	100ug / 10789-166	500ug / 10822-300	1mg / 10788-156
MIP-4 / CCL18	Human Macrophage Inflammatory Protein-4 (CCL18)	2ug / 10787-280	10ug / 10787-276	100ug / 10787-274	500ug / 10822-302	1mg / 10787-278
Myostatin	Human Myostatin	2ug / 10789-132	10ug / 10789-128	100ug / 10787-450	500ug / 10822-304	1mg / 10789-130
Myostatin Propeptide	Human Myostatin Propeptide	5ug / 10787-318	25ug / 10787-316	100ug / 10787-312	500ug / 10822-306	1mg / 10787-314

Catalog Name	Product Name	Size / Part #	Size / Part #	Size / Part #	Size / Part #	Size / Part #
NGF-β	Human Nerve Growth Factor-beta	5ug / 10787-570	20ug / 10787-568	100ug / 10787-564	500ug / 10822-308	1mg / 10787-566
NGF-β (AF)	Human Nerve Growth Factor-beta (AF)	5ug / 10788-738	20ug / 10788-736	100ug / 10788-732	500ug / 10822-310	1mg / 10788-734
NGF-β	Mouse Nerve Growth Factor-beta	5ug / 10787-918	20ug / 10787-916	100ug / 10787-912	500ug / 10822-312	1mg / 10787-914
NRG1- β	Human Neuregulin 1-beta	10ug / 10787-624	50ug / 10787-628	100ug / 10822-314	500ug / 10821-846	1mg / 10787-626
NT-3	Human Neurotrophin-3	2ug / 10787-832	10ug / 10787-828	100ug / 10787-826	500ug / 10822-316	1mg / 10787-830
NT-3	Mouse Neurotrophin-3	2ug / 10787-978	10ug / 10787-974	100ug / 10787-972	500ug / 10822-318	1mg / 10787-976
NT-4	Human Neurotrophin-4	2ug / 10787-528	10ug / 10787-524	100ug / 10787-522	500ug / 10822-320	1mg / 10787-526
Omentin	Human Omentin	2ug / 10787-296	10ug / 10787-292	100ug / 10787-290	500ug / 10822-322	1mg / 10787-294
Omentin (AF)	Human Omentin (AF)	2ug / 10787-304	10ug / 10787-300	100ug / 10787-298	500ug / 10822-324	1mg / 10787-302
Oncostatin M	Human Oncostatin M	2ug / 10789-112	10ug / 10789-114	100ug / 10789-116	500ug / 10822-326	1mg / 10789-118
Oncostatin M (AF)	Human Oncostatin M (AF)	2ug / 10789-120	10ug / 10789-122	100ug / 10789-124	500ug / 10822-328	1mg / 10789-126
PDGF-AA	Human Platelet Derived Growth Factor-AA	2ug / 10787-394	10ug / 10787-398	100ug / 10787-396	500ug / 10822-330	1mg / 10787-400
PDGF-AA (AF)	Human Platelet Derived Growth Factor-AA (AF)	2ug / 10788-916	10ug / 10788-912	100ug / 10788-910	500ug / 10822-332	1mg / 10788-914
PDGF-AA	Mouse Platelet Derived Growth Factor-AA	2ug / 10788-240	10ug / 10788-236	100ug / 10788-234	500ug / 10822-334	1mg / 10788-238
PDGF-AB	Human Platelet Derived Growth Factor-AB	2ug / 10788-932	10ug / 10788-928	100ug / 10788-926	500ug / 10821-864	1mg / 10788-930
PDGF-AB (AF)	Human Platelet Derived Growth Factor-AB (AF)	2ug / 10788-980	10ug / 10788-976	100ug / 10788-974	500ug / 10821-866	1mg / 10788-978
PDGF-BB	Human Platelet Derived Growth Factor-BB	2ug / 10787-440	10ug / 10787-436	100ug / 10788-982	500ug / 10821-868	1mg / 10787-438
PDGF-BB (AF)	Human Platelet Derived Growth Factor-BB (AF)	2ug / 10788-988	10ug / 10788-984	100ug / 10787-442	500ug / 10821-870	1mg / 10788-986
PDGF-BB	Mouse Platelet Derived Growth Factor-BB	2ug / 10788-264	10ug / 10788-260	100ug / 10788-258	500ug / 10821-872	1mg / 10788-262
Procalcitonin	Human Procalcitonin	2ug / 10787-432	10ug / 10787-428	100ug / 10787-426	500ug / 10821-874	1mg / 10787-430
Prolactin	Human Prolactin	10ug / 10787-618	50ug / 10787-622	100ug / 10821-876	500ug / 10821-904	1mg / 10787-620
Prolactin	Rat Prolactin	10ug / 10788-676	50ug / 10788-678	100ug / 10821-878	500ug / 10821-906	1mg / 10788-680
Prolactin (AF)	Rat Prolactin (AF)	10ug / 10788-682	50ug / 10788-812	100ug / 10821-880	500ug / 10821-908	1mg / 10788-814
Persephin	Human Persephin	5ug / 10788-660	20ug / 10788-662	100ug / 10788-664	500ug / 10821-882	1mg / 10788-666
Persephin (AF)	Human Persephin (AF)	5ug / 10788-668	20ug / 10788-670	100ug / 10788-672	500ug / 10821-884	1mg / 10788-674
Pleiotrophin	Human Pleiotrophin	5ug / 10787-668	20ug / 10787-666	100ug / 10787-662	500ug / 10821-886	1mg / 10787-664
Pleiotrophin (AF)	Human Pleiotrophin (AF)	5ug / 10787-676	20ug / 10787-674	100ug / 10787-670	500ug / 10821-888	1mg / 10787-672
RANK Ligand	Human soluble RANK Ligand	2ug / 10788-996	10ug / 10788-992	100ug / 10788-990	500ug / 10821-890	1mg / 10788-994
RANK Ligand (AF)	Human soluble RANK Ligand (AF)	2ug / 10789-004	10ug / 10789-000	100ug / 10788-998	500ug / 10821-892	1mg / 10789-002
RANK Ligand	Mouse soluble RANK Ligand	2ug / 10787-856	10ug / 10787-852	100ug / 10787-850	500ug / 10821-894	1mg / 10787-854
RANK Ligand (AF)	Mouse soluble RANK Ligand (AF)	2ug / 10821-712	10ug / 10821-714	100ug / 10821-716	500ug / 10822-336	1mg / 10821-718
RANTES / CCL5	Human RANTES (CCL5)	5ug / 10787-288	20ug / 10787-286	100ug / 10787-282	500ug / 10822-338	1mg / 10787-284
RANTES / CCL5	Mouse RANTES (CCL5)	5ug / 10788-168	20ug / 10788-166	100ug / 10788-162	500ug / 10822-340	1mg / 10788-164
RANTES / CCL5	Rat RANTES (CCL5)	5ug / 10788-490	20ug / 10788-488	100ug / 10788-484	500ug / 10822-342	1mg / 10788-486
RELM-α	Mouse RELM-alpha	5ug / 10788-032	25ug / 10788-030	100ug / 10789-094	500ug / 10822-344	1mg / 10788-028
RELM-β	Human RELM-beta	5ug / 10787-392	25ug / 10787-390	100ug / 10787-386	500ug / 10822-346	1mg / 10787-388

Catalog Name	Product Name	Size / Part #	Size / Price / Part #	Size / Part #	Size / Part #	Size / Part #
RELM-β (AF)	Human RELM-beta (AF)	5ug / 10821-696	25ug / 10821-698	100ug / 10821-700	500ug / 10822-348	1mg / 10821-702
RELM-β	Mouse RELM-beta	5ug / 10788-342	25ug / 10788-340	100ug / 10788-336	500ug / 10822-350	1mg / 10788-338
Resistin	Human Resistin Dimer	5ug / 10787-154	25ug / 10787-152	100ug / 10787-148	500ug / 10822-352	1mg / 10787-150
Resistin	Mouse Resistin Dimer	5ug / 10788-784	25ug / 10788-782	100ug / 10788-778	500ug / 10822-354	1mg / 10788-780
SCF	Human Stem Cell Factor	2ug / 10787-074	10ug / 10787-070	100ug / 10787-068	500ug / 10822-360	1mg / 10787-072
SCF (AF)	Human Stem Cell Factor (AF)	2ug / 10787-082	10ug / 10787-078	100ug / 10787-076	500ug / 10822-362	1mg / 10787-080
SCF	Mouse Stem Cell Factor	2ug / 10787-902	10ug / 10788-762	100ug / 10788-760	500ug / 10822-364	1mg / 10787-900
SCF	Rat Stem Cell Factor	2ug / 10788-538	10ug / 10788-534	100ug / 10788-532	500ug / 10822-366	1mg / 10788-536
SDF-1α / CXCL12	Human Stromal Cell-Derived Factor-1 alpha (CXCL12)	2ug / 10789-012	10ug / 10789-008	100ug / 10789-006	500ug / 10822-368	1mg / 10789-010
SDF-1α / CXCL12	Mouse Stromal Cell-Derived Factor-1 alpha (CXCL12)	2ug / 10788-176	10ug / 10788-172	100ug / 10788-170	500ug / 10822-370	1mg / 10788-174
SDF-1β / CXCL12	Human Stromal Cell-Derived Factor-1 beta (CXCL12)	2ug / 10787-384	10ug / 10787-380	100ug / 10787-378	500ug / 10822-372	1mg / 10787-382
SDF-1β / CXCL12	Mouse Stromal Cell-Derived Factor-1 beta (CXCL12)	2ug / 10788-326	10ug / 10788-322	100ug / 10788-320	500ug / 10822-374	1mg / 10788-324
SDF-1β / CXCL12	Feline Stromal Cell-Derived Factor-1 beta (CXCL12)	2ug / 10788-546	10ug / 10788-542	100ug / 10788-540	500ug / 10822-376	1mg / 10788-544
SHH	Human Sonic Hedgehog	5ug / 10788-900	25ug / 10788-898	100ug / 10788-894	500ug / 10822-378	1mg / 10788-896
SHH	Mouse Sonic Hedgehog	5ug / 10788-248	25ug / 10788-246	100ug / 10788-242	500ug / 10822-380	1mg / 10788-244
TARC / CCL17	Human TARC (CCL17)	5ug / 10787-584	20ug / 10787-582	100ug / 10789-038	500ug / 10822-382	1mg / 10787-580
TGF-β1	Human Transforming Growth Factor beta 1	1ug / 10788-740	5ug / 10788-746	100ug / 10788-742	500ug / 10822-384	1mg / 10788-744
TGF-β3	Human Transforming Growth Factor beta 3 (E. coli)	2ug / 10788-846	10ug / 10788-842	100ug / 10788-840	500ug / 10822-386	1mg / 10788-844
TGF-β3	Human Transforming Growth Factor beta 3 (E. coli) (AF)	2ug / 10787-162	10ug / 10787-158	100ug / 10787-156	500ug / 10822-388	1mg / 10787-160
TGF-β3	Mouse Transforming Growth Factor beta 3 (E. coli)	2ug / 10788-024	10ug / 10788-020	100ug / 10788-018	500ug / 10822-390	1mg / 10788-022
TGF-β3	Mouse Transforming Growth Factor beta 3 (E. coli) (AF)	2ug / 10789-092	10ug / 10789-088	100ug / 10788-026	500ug / 10822-392	1mg / 10789-090
TNF-Receptor-1	Human Tumor Necrosis Factor Receptor Type 1	5ug / 10787-548	20ug / 10787-546	100ug / 10787-542	500ug / 10822-394	1mg / 10787-544
TNF-α	Human Tumor Necrosis Factor alpha	10ug / 10787-180	50ug / 10787-184	100ug / 10822-396	500ug / 10821-910	1mg / 10787-182
TNF-α (AF)	Human Tumor Necrosis Factor alpha (AF)	10ug / 10787-186	50ug / 10787-190	100ug / 10822-398	500ug / 10821-848	1mg / 10787-188
TNF-α	Mouse Tumor Necrosis Factor alpha	5ug / 10788-048	20ug / 10788-046	100ug / 10788-786	500ug / 10822-400	1mg / 10788-044
TNF-α	Rat Tumor Necrosis Factor alpha	5ug / 10788-450	20ug / 10788-448	100ug / 10788-444	500ug / 10822-402	1mg / 10788-446
TPO	Human Thrombopoietin	2ug / 10787-090	10ug / 10787-086	100ug / 10787-084	500ug / 10822-404	1mg / 10787-088
TPO (AF)	Human Thrombopoietin (AF)	2ug / 10787-098	10ug / 10787-094	100ug / 10787-092	500ug / 10822-406	1mg / 10787-096
TPO	Mouse Thrombopoietin	2ug / 10788-056	10ug / 10788-052	100ug / 10788-050	500ug / 10822-408	1mg / 10788-054
TPO (AF)	Mouse Thrombopoietin (AF)	2ug / 10788-064	10ug / 10788-060	100ug / 10788-058	500ug / 10822-410	1mg / 10788-062
TRAIL	Human TRAIL	10ug / 10787-192	50ug / 10787-196	100ug / 10822-412	500ug / 10821-850	1mg / 10787-194

Catalog Name	Product Name	Size / Part #	Size / Part #	Size / Part #	Size / Part #	Size / Part #
TSLP	Human Thymic Stromal Lymphopoietin	2ug / 10788-720	10ug / 10788-716	100ug / 10787-434	500ug / 10822-414	1mg / 10788-718
VEGF-120	Mouse Vascular Endothelial Growth Factor-120	2ug / 10788-220	10ug / 10788-216	100ug / (N/A)	500ug / 10822-416	1mg / 10788-218
VEGF-121	Human Vascular Endothelial Growth Factor-121	2ug / 10787-204	10ug / 10787-200	100ug / 10787-198	500ug / 10822-418	1mg / 10787-202
VEGF-121 (AF)	Human Vascular Endothelial Growth Factor-121 (AF)	2ug / 10787-212	10ug / 10787-208	100ug / 10787-206	500ug / 10822-420	1mg / 10787-210
VEGF-165	Human Vascular Endothelial Growth Factor-165	2ug / 10787-608	10ug / 10787-604	100ug / 10787-602	500ug / 10822-422	1mg / 10787-606
VEGF-165 (AF)	Human Vascular Endothelial Growth Factor-165 (AF)	2ug / 10787-616	10ug / 10787-612	100ug / 10787-610	500ug / 10822-424	1mg / 10787-614
VEGF-165	Mouse Vascular Endothelial Growth Factor-165	2ug / 10789-156	10ug / 10789-152	100ug / 10788-082	500ug / 10822-426	1mg / 10789-154
VEGF-165	Rat Vascular Endothelial Growth Factor-165	2ug / 10788-530	10ug / 10788-526	100ug / 10788-524	500ug / 10822-426	1mg / 10788-528
Visfatin	Human Visfatin	5ug / 10789-044	25ug / 10789-042	100ug / 10787-650	500ug / 10822-430	1mg / 10789-040

# SHENANDOAH OFFERS:

## 5 CONVENIENT SIZE OPTIONS

A menu of sizes to match your project and budget



**MINI**  
(2-5 ug vials)

**Sampler Size:** perfect for taking our proteins for a test drive, starting projects, and signaling experiments.



**STANDARD**  
(5-50 ug vials)

**Average Joe Size:** enough to cover most multi-experiment projects. Ideal for mixing up a couple bottles of tissue culture media.



**VALUE**  
(100 ug vials)

**BANG for Your Buck Size:** lots of protein without the commitment of the mg size. Major cost savings for everyday use.



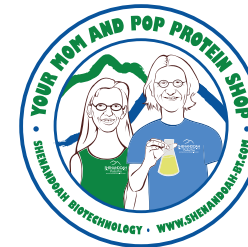
**MIDGI**  
(500 ug vials)

**Midgi Size:** When you need more than 100ug, but a milligram is just too much.



**MILLIGRAM**  
(1-10 mg vials)

**Mother Lode Size:** Lowest price per unit. Great for animal projects, bulk tissue culture, and concerns about lot-to-lot consistency over time.



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