



IL-12 Recombinant Protein

CATALOG NUMBER: 40-419

Specifications

SPECIES:	Murine
SOURCE SPECIES:	CHO cells
SEQUENCE:	p35 Subunit: RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSCTA EDIDHEDITR DQTSTLKTCL PLELHKNE SC LATRETSSTT RGSCLPPQKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ NHHHQQIILD KGMLVAIDEL MQSLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSA p40 Subunit: MWELEKDVYV VEVDWTPDAP GETVNLTC DT PEEDDITWTS DQRHGVIGSG KTLTITVKEF LDAGQYTCHK GGETLSHSHL LLHKKENG IW STEILKNFKN KTFKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSSPDS RAVTCGMASL SAEKVTLDQR DYKYSVSCQ EDVTCPTAEE TLPIELALEA RQKNKYENYS TSFFIRDIK PDPKLNQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNV CV QAQDRYYNSS CSKWACVPCR VRS
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	The ED50 was determined by the stimulation of IFN - gamma production by murine splenocytes co - stimulated with IL - 18 is < 0.1 ng/mL, corresponding to a specific activity of > 1 x 10 ⁷ units/mg.

Properties

PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized IL-12 recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted IL-12 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing IL-12 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

ALTERNATE NAMES:	p35, LI12a, IL-12a, IL-12p35, Interleukin-12 subunit alpha, Cytotoxic lymphocyte maturation factor 35 kDa subunit, IL-12A
ACCESSION NO.:	NP_032377.1
PROTEIN GI NO.:	6680395

Background

IL-12 is a potent regulator of cell mediated immune responses and it induces IFN-gamma production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes and connective tissue type mast cells. Among its biological activities IL-12 promotes the growth and activity of activated NK, CD4+ and CD8+ cells and induces the development of IFN-gamma producing Th1 cells. Recombinant murine IL-12 is a 75.0 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35) and 40 kDa (p40) subunits (506 total amino acid residues).

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