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## HIGH PERFORMANCE ANTIBODIES ... AND MORE

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## **IL-13 Recombinant Protein**

CATALOG NUMBER: 40-258

Specifications	
SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	SPGPVPPSTA LRELIEELVN ITQNQKAPLC NGSMVWSINL TAGMYCAALE SLINVSGCSA IEKTQRMLSG FCPHKVSAGQ FSSLHVRDTK IEVAQFVKDL LLHLKKLFRE GRFN
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	The ED50 was determined by the dose - dependent proliferation of TF - 1 cells was $\leq$ 1.0 ng/mL, corresponding to a specific activity of $\geq$ 1 x 10 <sup>6</sup> 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-13 recombinant protein is stable for at least 2 years from date of receipt at -20°C.  Reconstituted IL-13 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-13 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:	P600, IL-13, NC30, Interleukin-13
ACCESSION NO.:	NP_002179.2
PROTEIN GI NO.:	26787978

## **Background**

IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1β, TNF-α, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and murine IL-13 is cross-species reactive. Recombinant human IL-13 is a 12.5 kDa protein consisting of 114 amino acid residues.

## FOR RESEARCH USE ONLY