



IL-13 Recombinant Protein

CATALOG NUMBER: 40-421

Specifications	
SPECIES:	Murine
SOURCE SPECIES:	E. coli
SEQUENCE:	MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHG P F
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	The ED50 was determined by the dose - dependent proliferation of TF - 1 cells was < 4.0 ng/mL, corresponding to a specific activity of > 2.5 x 10 ⁵ 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:	Il-13, Il-13, Interleukin-13, T-cell activation protein P600, IL-13
ACCESSION NO.:	NP_032381.1
PROTEIN GI NO.:	6680403

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-1beta, TNF-alpha, 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 murine IL-13 is a 12.3 kDa protein consisting of 111 amino acid residues.

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