

Recombinant Human IL13 protein

Cat. No. IL13-22H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL13 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	112
Description	Human Interleukin-13 (IL-13) is expressed by the IL13 gene located on the chromosome 5 and secreted by many cell types, especially T helper type 2 (Th2) cells. The high solution form of IL-13 reported to be a monomer with two internal disulfide bonds that contribute to a bundled four α -helix configuration. 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. Human, mouse and rat IL-3 share low homology, but have cross species activity.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4 with 5 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 1 ng/ml, corresponding to

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	a specific activity of > 1.0 × 10 ⁶ IU/mg.
Molecular Mass	Approximately 12.5 kDa, a single non-glycosylated polypeptide chain containing 112 amino acids.
AA Sequence	GPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALES LINVSGCSA IEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLLHLKFLFREGRFN
Endotoxin	Less than 1 EU/g of rHuIL-13 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 20 mM HCl to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL13
Official Symbol	IL13
Synonyms	IL13; interleukin 13; interleukin-13; allergic rhinitis; ALRH; BHR1; Bronchial hyperresponsiveness 1 (bronchial asthma); IL 13; MGC116786; MGC116788; MGC116789; P600; Bronchial hyperresponsiveness-1 (bronchial asthma); IL-13;

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Gene ID 3596

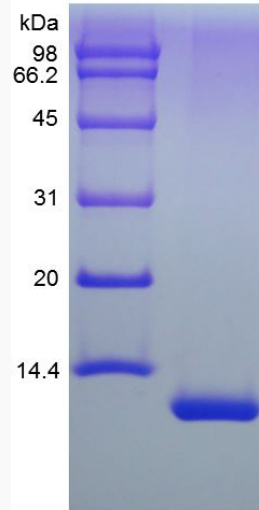
mRNA Refseq NM_002188

Protein Refseq NP_002179

MIM 147683

UniProt ID P35225

**SDS-PAGE of IL13-
22H**



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