

Active Recombinant Human Interleukin 13

Cat. No. IL13-481H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-13 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 114 amino acids and having a molecular mass of 12.5 kDa.
Species	Human
Source	E.coli
Description	Interleukin-13 (IL-13) is a multifunctional cytokine whose net principle action is to diminish inflammatory responses. Interleukin (IL)-13 is an important cytokine secreted from type 2 helper T lymphocytes. It is essential for modulating IgE synthesis by human B cells. Previous studies showed that polymorphisms in the IL-13 gene were associated with serum total IgE or allergic asthma.
Form	Lyophilized from 10 mM NaCitrate, pH 3.0.
Purity	Purity Greater than 95% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Human IL-13 is fully biologically active when compared to standard. The ED50 was determined by the dose dependent proliferation of TF-1 cells and was found to be < 1ng/ml, corresponding to a specific activity.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.

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Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/s/ml, which can be further diluted into other aqueous solutions.
Purity Greater than 95% as determined by	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	SPGPVPPSTA LRELIEELVN ITQNQKAPLC NGSMVWSINL TAGMYCAALE SLINVSGCSA IEKTQRMLSG FCPHKVSAGQ FSSLHVRDTK IEVAQFVKDL LLHLKKLFRE GRFN
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.
Pathways	Asthma; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Jak-STAT signaling pathway

GENE INFORMATION

Gene Name	IL13 interleukin 13 [Homo sapiens]
Official Symbol	IL13

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Synonyms	IL13; interleukin 13; ALRH; BHR1; P600; IL-13; MGC116786; MGC116788; MGC116789; Interleukin-13; NC30
Gene ID	3596
mRNA Refseq	NM_002188
Protein Refseq	NP_002179
MIM	147683
UniProt ID	P35225
Chromosome Location	5q31
Function	cytokine activity; interleukin-13 receptor binding; protein binding
PDBrendering based on 1ga3.	