

Recombinant Human IL13 protein

Cat. No. IL13-165H **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	<p>Human Interleukin-13 (IL-13) is expressed by the IL13 gene located on the chromosome 5. IL-13 is a 132 amino acid protein containing a proposed 20 amino acid signal peptide, and shares approximately 30% amino acid sequence homology to human IL-4. Additionally, the two cytokines exhibit overlapping biological activities. Human IL-13 is produced by activated Th0, Th1-like Th2-like and CD8 T cells. Similarly to IL-4, IL-13 has multiple effects on the differentiation and functions of monocytes/macrophages. IL-13 can suppress the cytotoxic functions of monocytes/macrophages. IL-13 variant is a natural variant of IL-13 and has a Q instead of R112 of wild type, which associated with increased risk for asthma development and at homozygosity associated with higher levels of serum total IgE in some allergic rhinitis patients.</p>
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.2, 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 0.5 ng/ml, corresponding

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	to a specific activity of > 2.0 × 10 ⁶ IU/mg.
Molecular Mass	Approximately 12.3 kDa, a single non-glycosylated polypeptide chain containing 112 amino acids, with a substitution of Q for R at position 112 compared with the wild type IL-13.
AA Sequence	GPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALES LINVSGCSA IEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLLHLKCLFREGQFN
Endotoxin	Less than 1 EU/g of rHuIL-13, Variant 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 sterile distilled water or aqueous buffer containing 0.1 % BSA 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

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hyperresponsiveness 1 (bronchial asthma); IL 13; MGC116786; MGC116788;
MGC116789; P600; Bronchial hyperresponsiveness-1 (bronchial asthma); IL-13;

Gene ID 3596

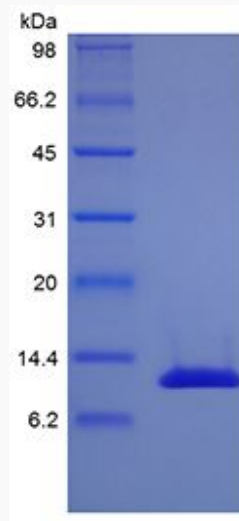
mRNA Refseq NM_002188

Protein Refseq NP_002179

MIM 147683

UniProt ID P35225

**SDS-PAGE of IL13-
165H**



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