

Interleukin-13 Active Protein | mIL 13 active protein

Recombinant Mouse Interleukin-13

CATALOG # AAA38182	HOST E Coli
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PRODUCT SYNONYMS

Interleukin-13; Recombinant Mouse Interleukin-13; IL 13 Mouse; Interleukin-13 Mouse Recombinant; NC300; ALRH; BHR1; P600; IL-13; IL13; mIL 13 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	The protein (1mg/ml) was lyophilized in PBS, pH 7.2 and 5% trehalose. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F
Sequence Length	131
Solubility	It is recommended to reconstitute the lyophilized Interleukin 13 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm using the absorbency value of 0.69 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IL-13 as a Reference Standard.
Biological Activity	The ED50 range=4 ng/ml, corresponding to a specific activity of 250,000IU/mg as determined by the dose dependent proliferation of TF-1 cells.
Preparation and Storage	Lyophilized Interleukin-13 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IL13 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mIL 13 active protein	Description: Interleukin-13 Mouse Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 111 amino acids and having a molecular mass of 12.3 kDa. The IL-13 is purified by proprietary chromatographic techniques. Introduction: IL13 is an immunoregulatory cytokine produced primarily by activated Th2 cells. IL-13 is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4.
Product Categories/Family for mIL 13 active protein	Cytokines and Growth Factors ; Cytokines ; Interleukin

NCBI AND UNIPROT INFORMATION

NCBI GI #	6680403
NCBI GeneID	16163
NCBI Accession #	NP_032381.1
NCBI GenBank Nucleotide #	NM_008355.3
UniProt Accession #	P20109
Molecular Weight	14,108 Da
NCBI Official Full Name	interleukin-13
NCBI Official Synonym Full Names	interleukin 13
NCBI Official Symbol	IL13
NCBI Official Synonym Symbols	IL-13
NCBI Protein Information	interleukin-13; T-cell activation protein P600
UniProt Protein Name	Interleukin-13
UniProt Gene Name	IL13
UniProt Synonym Gene Names	IL-13; IL-13
UniProt Entry Name	IL13_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mil-13-active-protein/interleukin-13/38182>