Active Recombinant Human IL13 protein, Fc-tagged

Cat. No. IL13-365H **Lot. No.** (See product label)

SPECIFICATION

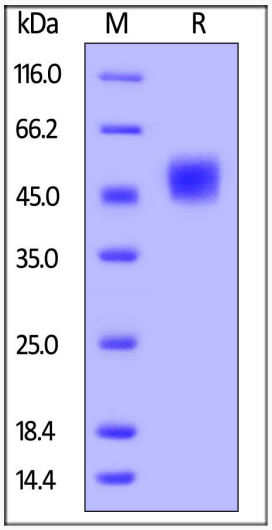
Product Overview	Human IL-13, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Asn 146 (Accession # NP_002179.2).
Species	Human
Source	HEK293
ProteinLength	Leu 25 - Asn 146
Description	Interleukin 13 (IL13) is also known as ALRH, BHR1and P600, is a single-chain glycosylated polypeptide, and is a cytokine critical in regulating inflammatory and immune responses. IL13 is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor (IL-4Rα) and at least one of two known IL-13-specific binding chains. The functions of IL-13 overlap considerably with those of IL-4, especially with regard to changes induced on hematopoietic cells, but these effects are probably less important given the more potent role of IL-4. IL-13 induces matrix metalloproteinases (MMPs) as part of a mechanism that protects against excessive allergic inflammation that predisposes to asphyxiation. IL-13 induces many features of allergic lung disease, including airway hyperresponsiveness, goblet cell metaplasia and mucus hypersecretion, which all contribute to airway obstruction.
Predicted N Terminal	Gly
Form	Lyophilized from 0.22

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	μm filtered solution in 50 mM Tris,100 mM Glycine, pH7.5, 10% trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Human IL-13RA1, His Tag at 10 μg/mL (100 μL/well) can bind Human IL-13, Fc Tag with a linear range of 0.256-10 μg/mL. Measured by its binding ability in a functional ELISA. Immobilized Human IL-13, Fc Tag at 10 μg/mL (100 μL/well) can bind Anti IL-13 MAb, Human IgG4 with a linear range of 0.8-25 ng/mL.
Molecular Mass	This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 40.2 kDa. The protein migrates as 45-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Storage buffer	50 mM Tris,100 mM Glycine, pH7.5
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Shipping	Powder,RT

GENE INFORMATION

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	IL13 interleukin 13 [Homo sapiens (human)]
Official Symbol	IL13
Synonyms	P600; IL-13; interleukin-13
Gene ID	3596
mRNA Refseq	NM_002188.2
Protein Refseq	NP_002179.2
UniProt ID	P35225
SDS-PAGE	 Human IL-13, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA