

Recombinant Human IL13, His-Biotin-tagged

Cat. No. IL13-16H Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mature form of human IL-13 (Leu25 - Asn146) with 6 His tag on the N-Terminus was expressed in E. Coli. This protein was purified by Ni-NTA column. That protein was conjugated with water soluble biotin.
Species	Human
Source	E.coli
ProteinLength	25-146 a.a.
Description	This gene encodes an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine 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.
Form	Lyophilized 50 ug of human IL-13 Biotinylated in 50 ul of PBS Carry free.
Molecular Mass	14 KD
AA Sequence	Human IL-13 (Leu25 - Asn146) Biotinylated

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Purity	>95%, by SDS-PAGE
Applications	ELISA
Storage	Store lyophilized protein at -20 °C or -70 °C. Protect it from light. Lyophilized protein is stable for up to 6 months from date of receipt at - 20 °C to -70 °C. Upon reconstitution, this protein can be stored at -20 °C for a few weeks or at -70 °C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles.
Reconstitution	Add 100 ul deionized water to the vial to prepare a working stock solution at 500 ug/mL. Allow to set at least 30 minutes at 4 °C, mix well.
Conjugation	Biotin

GENE INFORMATION

Gene Name	IL13 interleukin 13 [Homo sapiens (human)]
Official Symbol	IL13
Synonyms	IL13; P600; IL-13; interleukin 13; interleukin-13
Gene ID	3596
mRNA Refseq	NM_002188
Protein Refseq	NP_002179
MIM	147683

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UniProt ID	P35225
Chromosome Location	5q31
Pathway	Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response; Fc epsilon RI signaling pathway
Function	cytokine activity; interleukin-13 receptor binding; protein binding

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