

Active Recombinant Human IL13 protein, His-tagged

Cat. No. IL-13-3015H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IL13 protein(P35225)(25~146 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	25-146 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interleukin 13 (IL13) is cytokine secreted by many cell types, but especially T helper type 2 (Th2) cells. IL13 has effects on immune cells that are similar to those of the closely related cytokine IL4. Although IL13 is associated primarily with the induction of airway disease, it also has anti-inflammatory properties. IL13 induces a class of protein-degrading enzymes, known as matrix metalloproteinases (MMPs), in the airways. Furthermore, IL-13 can induce immunoglobulin E (IgE) secretion from activated human B cells. Besides, Interleukin 13 Receptor Alpha 1 (IL13Ra1) has been identified as an interactor of IL13, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human IL13 and recombinant mouse IL13Ra1. Briefly, biotin-linked IL13 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL13Ra1-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times

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and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of IL13 and IL13Ra1 was shown, the EC50 for this effect is 0.018 ug/mL.

Molecular Mass	17.0kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IL13 interleukin 13 [Homo sapiens]
Official Symbol	IL13
Synonyms	IL13; interleukin 13; interleukin-13; allergic rhinitis; ALRH; BHR1; Bronchial hyperresponsiveness 1 (bronchial asthma); IL 13; MGC116786; MGC116788; MGC116789; P600; Bronchial hyperresponsiveness-1 (bronchial asthma); IL-13;
Gene ID	3596
mRNA Refseq	NM_002188

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Protein Refseq	NP_002179
MIM	147683
UniProt ID	P35225
Activity	
SDS-PAGE	

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