

Active Recombinant Human IL13 Protein

Cat. No. IL13-255I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human interleukin 13 expressed in CHO cells is glycosylated protein with molecular weight range from 25 to 45 kDa shown in non-reducing SDS-PAGE.
Species	Human
Source	CHO
Description	Interleukin 13 (IL-13) is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1beta, TNF-alpha, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and mouse IL-13 is cross-species reactive.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 15 ng/mL, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 6.7 × 10 ⁵ units/mg.
Molecular Mass	25-45 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	SPGPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALESLINVSGC

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SAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLHLKKLFREGRFN

Endotoxin < 0.2 EU/μg, determined by LAL method.

Purity > 95% as analyzed by SDS-PAGE.

Storage Lyophilized recombinant human Interleukin 13 (IL-13) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhIL-13 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

Storage Buffer Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH2O or PBS at 100 μg/mL.

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

Protein Refseq NP_002179

MIM 147683

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UniProt ID

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