

Active Recombinant Mouse Il13

Cat. No. II13-16M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mouse IL13 (Pro22-Phe131) was expressed and purified.
Species	Mouse
Source	Human Cells
ProteinLength	22-131 a.a.
Description	<p>Interleukin 13 (IL-13) is a single-chain glycosylated polypeptide, which belongs to the IL-13/IL-4 family. IL-13 protein is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 exerts its effects through a multi-subunit receptor comprising the alpha chain of the IL-4 receptor (IL-4Rα) and at least one of two known IL-13-specific binding chains (IL-13 Rα1 and IL-13 Rα2). As a cytokine, IL-13 protein is critical in regulating inflammatory, immune responses and diseases. In addition, it inhibits the production of pro-inflammatory cytokines and chemokines, and thus down-regulates macrophage activity. IL-13 protein and antibody is more importantly implicated as a central mediator of immunoregulatory processes in various cell types.</p>
Predicted N Terminal	Pro 22
Form	Lyophilized from sterile PBS, pH 7.5
Bio-activity	Measured in a cell proliferation assay using TF1 human erythroleukemic cells. The

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ED50 for this effect is typically 2-10 ng/mL.

Molecular Mass

The recombinant mouse IL13 consists of 110 amino acids and predicts a molecular mass of 12.1 KDa. It migrates as an approximately 14 KDa band in SDS-PAGE under reducing conditions.

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Purity

> 90 % as determined by SDS-PAGE

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name

IL13 interleukin 13 [*Mus musculus* (house mouse)]

Official Symbol

IL13

Synonyms

IL13; interleukin13; IL-13;interleukin-13;OTTMUSP00000005816; T-cell activation protein P600; IL-13

Gene ID

16163

mRNA Refseq

NM_008355

Protein Refseq

NP_032381

UniProt ID

P20109

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Chromosome Location	11 B1.3; 11 31.98 cM
Pathway	Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Glucocorticoid receptor regulatory network
Function	cytokine activity; interleukin-13 receptor binding; cytokine receptor binding

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