

Recombinant Mouse interleukin 13 Protein, His&Flag tagged

Cat. No. II13-042M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant mouse IL-13 protein (P20109) (Ser 26-Phe 131) with both His, Flag tag at the C-terminus was expressed in HEK293.

Species Mouse

Source HEK293

ProteinLength 26-131aa

Description

Cytokine that plays important roles in allergic inflammation and immune response to parasite infection. Synergizes with IL2 in regulating interferon-gamma synthesis. Stimulates B-cell proliferation, and activation of eosinophils, basophils, and mast cells. Plays an important role in controlling IL33 activity by modulating the production of transmembrane and soluble forms of interleukin-1 receptor-like 1/IL1RL1. Displays the capacity to antagonize Th1-driven proinflammatory immune response and downregulates synthesis of many proinflammatory cytokines including IL1, IL6, IL10, IL12 and TNF-alpha through a mechanism that partially involves suppression of NF-kappa-B. Functions also on nonhematopoietic cells, including endothelial cells where it induces vascular cell adhesion protein 1/VCAM1, which is important in the recruitment of eosinophils. Exerts its biological effects through its receptors which comprises the IL4R chain and the IL13RA1 chain, to activate JAK1 and TYK2, leading to the activation of STAT6. Aside from IL13RA1, another receptor IL13RA2 acts as a high affinity decoy for IL13 and mediates internalization and depletion of extracellular IL13.

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Tag	C-His&Flag
Molecular Mass	14.4 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

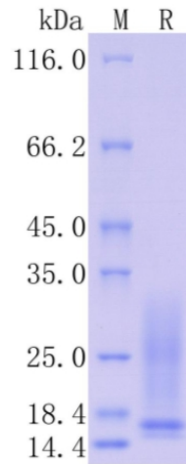
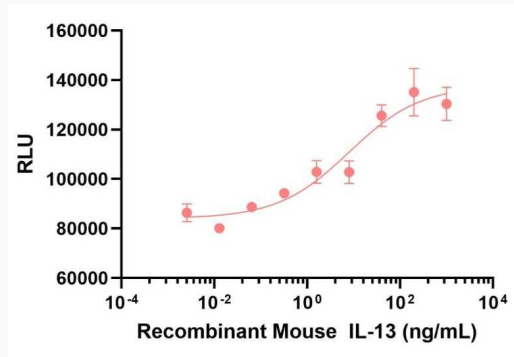
GENE INFORMATION

Gene Name	IL13 interleukin 13 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL13
Synonyms	IL13; interleukin 13; interleukin-13; T-cell activation protein P600; IL-13;
Gene ID	16163
mRNA Refseq	NM_008355
Protein Refseq	NP_032381

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UniProt ID
P20109
Protein on SDS-PAGE under reducing (R) condition.

Activity


Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 2-12 ng/mL.

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