

Recombinant Mouse IL13RA1 protein, Fc-tagged

Cat. No. IL13RA1-395M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL13RA1 protein (Ala26-Thr340), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	315
Description	Interleukin 13 receptor, alpha 1 is also known as IL13RA1, NR4 and CD213A1 (cluster of differentiation 213A1), The IL13 Rα1 cDNA encodes a 427 amino acid (aa) residue precursor protein with a putative 21 aa residue signal peptide, a 324 aa residue extracellular domain, a 23 aa residue transmembrane region and a 59 aa residue cytoplasmic tail. Human and mouse IL13Rα1 share 76% aa sequence identity. IL13RA1 is a subunit of the interleukin 13 receptor. This subunit forms a receptor complex with IL4 receptor alpha, a subunit shared by IL13 and IL4 receptors. This subunit serves as a primary IL13-binding subunit of the IL13 receptor, and may also be a component of IL4 receptors. This protein has been shown to bind tyrosine kinase TYK2, and thus may mediate the signaling processes that lead to the activation of JAK1, STAT3 and STAT6 induced by IL13 and IL4.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 62.7 kDa. The protein migrates as 67-100 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL13RA1
Official Symbol	IL13RA1
Synonyms	IL13RA1; interleukin 13 receptor, alpha 1; interleukin-13 receptor subunit alpha-1; IL-13RA1; IL-13R-alpha-1; IL-13R subunit alpha-1; novel cytokine receptor 4; IL-13 receptor subunit alpha-1; interleukin-13-binding protein; NR4; IL13ra; CD213a1; AI882074; IL-13r[a]
Gene ID	16164
mRNA Refseq	NM_133990

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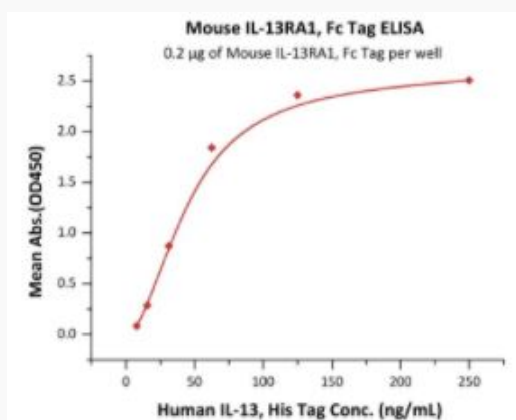
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Protein Refseq NP_598751

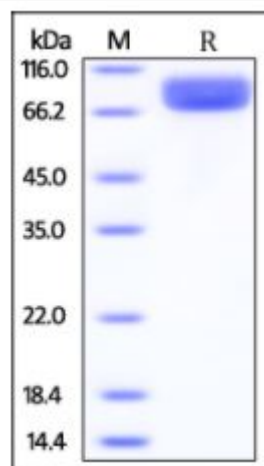
UniProt ID Q8BNM4

**Bioactivity-ELISA of
IL13RA1-395M**



Immobilized Mouse IL-13RA1, Fc Tag at 2 µg/mL (100 µL/well) can bind Human IL-13, His Tag with a linear range of 8-63 ng/mL (QC tested).

**SDS-PAGE of
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Mouse IL-13RA1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was

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stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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