Recombinant Human IL13RA1, C13&N15-labeled

Cat. No. IL13RA1-238H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL13RA1 MS Standard Protein, C13 and N15-labeled (IL13RA1, Heavy Labeled) Gly 22 - Thr 343 (Accession # NP_001551.1) was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	22-343 a.a.
Description	Interleukin 13 receptor, alpha 1, 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 mouseIL13Rα1 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.[1-3]
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

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Molecular Mass	IL13RA1, Heavy Labeled, fused with 6×His tag at the C-terminus, has a calculated MW of 38 kDa. The predicted N-terminus is Gly 22. DTT-reduced Protein migrates as 55-65 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per μg of the IL13RA1, Heavy Labeled by the LAL method.
Purity	>98% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).

GENE INFORMATION

Gene Name	IL13RA1 interleukin 13 receptor, alpha 1 [Homo sapiens]
Official Symbol	IL13RA1
Synonyms	IL13RA1; interleukin 13 receptor, alpha 1; interleukin-13 receptor subunit alpha-1; CD213a1; CD213a1 antigen; IL 13Ra; IL13 receptor alpha 1 chain; NR4; CT19; IL-13RA1; IL-13R-alpha-1; IL-13R subunit alpha-1; cancer/testis antigen 19; IL13 receptor alpha-1 chain; IL-13 receptor subunit alpha-1; bB128O4.2.1 (interleukin 13 receptor, alpha 1); CD213A1; IL-13Ra;
Gene ID	3597
mRNA Refseq	NM_001560
Protein Refseq	NP_001551
MIM	300119

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UniProt ID	P78552
Chromosome Location	Xq24
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; IL-4 signaling Pathway, organism-specific biosystem; IL4-mediated signaling events, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
Function	cytokine receptor activity; protein binding; receptor activity;

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