

IL-13 alpha 2 receptor (IL13RA2) Active Protein | IL13RA2 active protein

Human IL-13 alpha 2 receptor Recombinant (IL13RA2)

CATALOG #	HOST
AAA76103	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

IL-13 alpha 2 receptor (IL13RA2); Human IL-13 alpha 2 receptor Recombinant (IL13RA2); Human IL-13 alpha 2 receptor Recombinant; IL13RA2; IL-13RA2; CD213; IL13RA2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>98%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant IL-13 receptor alpha 2 is supplied as lyophilized 0.2 um filtered PBS solution, pH7.2.
Sequence Length	380
Host Note	Optimized DNA sequence encoding extracellular domain of human IL-13 receptor alpha2 including an IgG1 human Fc region was expressed in HEK293 cells.
Biological Activity	Measured by its ability to bind recombinant human Interleukin-13 at a concentration range of 0.3-8ng/ml.
Presentation	Recombinant IL-13 receptor alpha 2 is supplied as lyophilized 0.2 um filtered 50mM Tris, 100mM glycine solution, pH 7.5 and 5% trehalose.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1mg/mL. It is recommended to add 0.1% HSA or BSA for long term storage.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Weight Note	Recombinant IL-13RA2 is a homodimer protein consisting of 563 amino acid residue subunits, due to glycosylation migrates as an approximately 130kDa protein on SDS-PAGE.
Preparation and Storage	Recombinant IL13RA2, as supplied, can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C to -70 degree C for twelve months. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IL13RA2 active protein	The biological activity of IL-13 is regulated via the IL-13R type I and type II. The type I receptor is a heterodimer of the IL-4R α chain (IL-4R α) and IL-13R α 1, and ligand-receptor interactions induce phosphorylation of the IL-4R α and subsequent activation of the signal transducers and activators of transcription (STAT) -6 signaling pathway. This pathway appears to be the primary pathway for IL-13- induced signaling in nonhematopoietic cells. The type II receptor is composed of IL-13R α 1 and IL-13R α 2. IL-13R α 2 binds IL-13 with high affinity and is proposed to act as a decoy receptor that limits the activity of IL-13. Consistent with this, mice deficient in IL-13R α 2 demonstrate exaggerated IL-13-induced pathologies. IL-13R α 2 possesses a short cytoplasmic tail and is without signal motifs; however, there have been a number of reports to suggest IL-13 signals through this chain, possibly via a STAT6-independent, AP-1-dependent manner to induce activation of the Tgf β 1 promoter via the IL-13 type II receptor.
Product Categories/Family for IL13RA2 active protein	Receptors CD

References	• IL-13R2 has a protective role in a mouse model of cutaneous inflammation .<i>J. Immunol.</i>, Dec 2010; 185: 6802 - 6808. • IL-13R2 membrane and soluble isoforms differ in humans and mice .<i>J. Immunol.</i>, Dec 2009; 183: 7870 - 7876. • tuning sensitivity to il-4 and il-13: differential expression of il-4r, IL-13R1, and c regulates relative cytokine sensitivity .<i>J. Exp. Med.</i>, Oct 2008; 205: 2595 - 2608. • novel role of il-13 in fibrosis induced by nonalcoholic steatohepatitis and its amelioration by IL-13R-directed cytotoxin in a rat model .<i>J. Immunol.</i>, Oct 2008; 181: 4656 - 4665. • targeting IL-13R2-positive cancer with a novel recombinant immunotoxin composed of a single-chain antibody and mutated pseudomonas exotoxin .<i>Mol. Cancer Ther.</i>, Jun 2008; 7: 1579 - 1587.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10834992
NCBI GeneID	3598
NCBI Accession #	NP_000631.1
NCBI GenBank Nucleotide #	NM_000640.2
UniProt Accession #	Q14627; O00667; A8K7E2
Molecular Weight	44,176 Da
NCBI Official Full Name	interleukin-13 receptor subunit alpha-2
UniProt Protein Name	Interleukin-13 receptor subunit alpha-2
UniProt Gene Name	IL13RA2
UniProt Synonym Gene Names	IL13R; IL-13 receptor subunit alpha-2; IL-13R subunit alpha-2; IL-13R-alpha-2; IL-13RA2
UniProt Entry Name	I13R2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-cells-host-protein-expression-may-be-lot-specific-and-can-be-subject-to-change-during-production-including-bulk-orders-active-protein/il-13-alpha-2-receptor-il13ra2/76103>