

Datasheet for ABIN7319340

IL13 Receptor alpha 1 Protein (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	IL13 Receptor alpha 1 (IL13RA1)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL13 Receptor alpha 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IL13RA1 Protein (His Tag)(Active)
Sequence:	Gly22-Thr343
Characteristics:	Recombinant Human Interleukin-13 Receptor Subunit Alpha-1 is produced by our Mammalian expression system and the target gene encoding Gly22-Thr343 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit IL-13-dependent proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 2.1 ug/ml.

Target Details

Target:	IL13 Receptor alpha 1 (IL13RA1)
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Target Details

Alternative Name: IL13RA1 ([IL13RA1 Products](#))

Background: Interleukin-13 receptor subunit alpha-1(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. The human IL13-Rα1 was originally cloned based on sequence homology to the mouse IL13-Rα1, it share 76 % aa sequence identity. Human 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. The extracellular domain of IL13-Rα1 is also closely related to that of IL13-Rα2. It binds with low affinity to interleukin-13(IL13). IL13RA1 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.

Synonym: Interleukin-13 receptor subunit alpha-1, IL-13 receptor subunit alpha-1, IL-13R subunit alpha-1, IL-13R-alpha-1, IL-13RA1, Cancer/testis antigen 19, CT19, CD213a1, IL13RA1, IL13R, IL13RA,IL-13Ra,NR4

Molecular Weight: 37.7 kDa

NCBI Accession: [NP_001551](#)

Pathways: [JAK-STAT Signaling](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.