

**IL-13RA1/IL13RA, Human, Recombinant**

Cat. No. : PCK173

**General Information**

<b>Synonyms</b>	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
<b>Species</b>	Human
<b>Expression host</b>	Human Cells
<b>Sequence</b>	Gly22-Thr343
<b>Accession</b>	P78552
<b>Tag</b>	C-6His
<b>Mol mass</b>	37.7 kDa
<b>Expiration date</b>	12 months

**Product feature**

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin (EU/μg)</b>	< 0.1
<b>Storage</b>	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
<b>Shipping</b>	Ice bag
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**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.