

## 32-8917: Recombinant Human Interleukin-13 Receptor Subunit Alpha-1/IL-13RA1(C-6His)

**Gene :** IL13RA1

**Gene ID :** 3597

**Uniprot ID :** P78552

### Description

Source: Human cells.

MW :37.7kD.

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. 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-Ra1 was originally cloned based on sequence homology to the mouse IL13-Ra1, it share 76% aa sequence identity. Human The IL13-Ra1 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-Ra1 is also closely related to that of IL13-Ra2. 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.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** GGGGAAPTETQPPVTNLSVSVENLCTVIWTVNPNPEGASSNCSLWYFSHFQDKQDKKIAPETRRSI  
EVPLNERICLQVGSQCSTNESEKPSILVEKCISPEGDPEASVTELQCIWHNLSYMKCSWLPGRNT  
SPDTNYTLYYWHRSLKIHQCENIFREGQYFGCSFDLTQVKDSSFEQHSVQIMVKDNAGKIKPSFNI  
VPLTSRVKPDPPHIKNLSFHNDLQVQWENPQNFISRCLFYEVVNNSQTETHNVFYVQEAKECENP  
EFERNVENTSCFMVPGVLPDTLNTVRIRVKTNKLCEYEDDKLWSNWSQEMSIGKKRNSTHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.