



Recombinant Protein Technical Manual

Recombinant Human IL13RA1 Protein (His Tag)(Active)
RPES3291

Product Data:

Product SKU: RPES3291

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: NP_001551.1

Protein Information:

Molecular Mass: 37.7 kDa

AP Molecular Mass: 55-65 kDa

Tag: C-6His

Bio-activity: Measured by its ability to inhibit IL3-dependent proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 2.1 µg/ml.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

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

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

Application:

Synonyms: Interleukin3 receptor subunit alpha; IL3 receptor subunit alpha; IL3R subunit alpha; IL3R-alpha; IL3RA1; Cancer/testis antigen 19; CT19; CD213a1; IL13RA1; IL13R; IL13RA;IL3Ra;NR4

Immunogen Information:

Sequence: Gly22-Thr343

Background:

Interleukin3 receptor subunit alpha(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-R α 1 was originally cloned based on sequence homology to the mouse IL13-R α 1, it share 76% aa sequence identity. Human The IL13-R α 1 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-R α 1 is also closely related to that of IL13-R α 2. It binds with low affinity to interleukin3(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.