

32-8955: Recombinant Human Interleukin-5 Receptor Subunit Alpha/IL-5 Ra(C-6His)

Gene : IL5RA
Gene ID : 3568
Uniprot ID : Q01344

Description

Source: Human Cells.
MW :36.7kD.

Recombinant Human Interleukin-5 Receptor Subunit Alpha is produced by our Mammalian expression system and the target gene encoding Asp21-Glu335 is expressed with a 6His tag at the C-terminus. Interleukin-5 Receptor alpha (IL-5Ra, CD125) is a 60 kDa hematopoietin receptor that plays a dominant role in eosinophil biology. Mature human IL-5 Ra consists of a 322 aa extracellular domain (ECD) with a WSxWS motif and a four cysteine motif, a 20 aa transmembrane segment, and a 58 aa cytoplasmic domain. Within the ECD, human IL-5Ra shares 71% aa sequence identity with mouse and rat IL-5 Ra. Alternate splicing of human IL-5 Ra generates soluble secreted forms which function as IL-5 antagonists. The high affinity receptor for IL-5 is a complex that consists of the ligand binding IL-5 Ra and the transmembrane common beta chain (betac/CD131) which is shared with the receptor complexes for IL-3 and GM-CSF. IL-5 Ra binds IL-5 at low affinity and then associates with preformed betac oligomers to form the signaling competent receptor complex. IL-5 stimulation of CD34+ hematopoietic progenitor cells induces the up-regulation of transmembrane IL-5Ra followed by eosinophilic differentiation and activation.

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 : DLLPDEKISLLPPVNFITKVTGLAQVLLQWKPNPDQEQNRNVNLEYQVKINAPKEDDYETRITESKCVTILHKGFSASVRTILQNDHSLASSWASAELHAPPGSPGTSIVNLTCTNTTEDNYSRLRSYQVSLHCTWLVGTDAPEDTQYFLYYRYGSWTEECQEYSKDTLGRNIACWFPRTFILSKGRDWLAVLVNGSSKHSAIRPFDQLFALHAIDQINPPLNVTAIEGTRLISIQWEKPVSAFPIHCFDYEVKIHNTRNGYLQIEKLMTNAFISIIDDLSKYDVQVRAAVSSMCREAGLWSEWSQPIYVGNDDEHHHHHH

Application Note

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