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Product datasheet for TP727713

IL5RA Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Interleukin-5 Receptor Subunit Alpha/IL-5 RÎ±(C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Asp21-Glu335
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	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.
Stability:	12 months from date of despatch
Locus ID:	3568
UniProt ID:	Q01344
Summary:	Interleukin-5 Receptor alpha (IL-5RÎ±, CD125) is a 60 kDa hematopoietin receptor that plays a dominant role in eosinophil biology. Mature human IL-5 RÎ± 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-5RÎ± shares 71% aa sequence identity with mouse and rat IL-5 RÎ±. Alternate splicing of human IL-5 RÎ± 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 RÎ± and the transmembrane common Î² chain (Î²c/CD131) which is shared with the receptor complexes for IL-3 and GMCSF. IL-5 RÎ± binds IL-5 at low affinity and then associates with preformed Î²c oligomers to form the signaling competent receptor complex. IL-5 stimulation of CD34+ hematopoietic progenitor cells induces the up-regulation of transmembrane IL-5RÎ± followed by eosinophilic differentiation and activation.

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