

Datasheet for ABIN7196580

IL5RA Protein (His tag)



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	IL5RA
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL5RA protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IL5RA/IL-5 Rα Protein (His Tag)(Active)
Sequence:	Met 1-Arg 335
Characteristics:	A DNA sequence encoding the human IL5Ra isoform 2 (Q01344-2) (Met 1-Arg 335) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA. 2. Immobilized recombinant mouse IL5-his at 5 µg/mL (100 µL/well) can bind biotinylated human IL5Ra-his with a linear range of 32-4000 ng/mL. 3. Measured by its ability to inhibit IL5 dependent proliferation of TF1 human erythroleukemic cells. The ED50 for this effect is typically 0.7-2.8 µg/mL.

Target Details

Target:	IL5RA
Alternative Name:	IL5RA/IL-5 Ralpha (IL5RA Products)
Background:	<p>Background: Interleukin 5 receptor, alpha (IL5RA) also known as CD125 (Cluster of Differentiation 125) is a subunit of the Interleukin-5 receptor. IL5RA (CD125) is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Six alternatively spliced transcript variants encoding three distinct isoforms have been reported. IL5RA (CD125) is a T-cell-derived cytokine which is particularly important in the development of asthma for the lerminal differentiation, activation and survival of committed cosinophil precursors.</p> <p>Synonym: Interleukin-5 receptor subunit alpha, IL-5 receptor subunit alpha, IL-5R subunit alpha, IL-5R-alpha, IL-5RA, CDw125, CD125, IL5RA, IL5R,HSIL5R3,IL5R</p>
Molecular Weight:	37.3 kDa
Pathways:	JAK-STAT Signaling

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>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.</p>