

Active Recombinant Human IL5RA Protein

Cat. No. IL5RA-1646H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IL5RA Protein (Asp21-Glu335) without tag was expressed in Spodoptera frugiperda, Sf 21 (baculovirus).
Species	Human
Source	Insect Cells
ProteinLength	21-335 aa
Description	The protein encoded by this gene 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. Several alternatively spliced transcript variants encoding four distinct isoforms have been reported.
Molecular Mass	38 kDa
Bio-activity	Measured by its ability to inhibit IL-5-dependent proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 0.5-2 µg/mL in the presence of 0.5 ng/mL of rhIL-5.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Endotoxin	< 1 EU/μg determined by LAL.
Purity	> 97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
N-terminal Sequence Analysis	Asp21
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	IL5RA interleukin 5 receptor subunit alpha [Homo sapiens (human)]
Official Symbol	IL5RA
Synonyms	IL5RA; interleukin 5 receptor subunit alpha; IL5R; CD125; CDw125; HSIL5R3; interleukin-5 receptor subunit alpha; CD125 antigen; IL-5 receptor subunit alpha; IL-5R subunit alpha; interleukin 5 receptor type 3; interleukin 5 receptor, alpha; interleukin-5 receptor alpha chain
Gene ID	3568

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mRNA Refseq	NM_000564
Protein Refseq	NP_000555
MIM	147851
UniProt ID	Q01344

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