

Active Recombinant Human IL5RA Protein

Cat. No. IL5RA-241I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL5RA Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Interleukin-5 Receptor Alpha (IL-5RA), also known as CD125, belongs to the Type 5 subfamily in the type I cytokine receptor family. It is composed of a ligand-specific alpha subunit and a signal-transducing beta subunit shared by the receptors for IL-3 and GM-CSF. IL-5RA is mainly expressed on eosinophils and basophils, and plays important roles in the immunobiology of these cell types. It is reported that when stimulated by IL-5, eosinophils down-regulate surface IL-5RA expression to attenuate their IL-5 responsiveness. Elevated IL-5 production may induce immune cell infiltration which leads to allergic inflammation. IL-5RA has also been reported to promote the differentiation of basophils and B cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.2 ng/mL, measured in a cell proliferation assay using TF-1 cells in the presence of 1 ng/mL human IL-5.
Molecular Mass	53-56 kDa, observed by reducing SDS-PAGE.
AA Sequence	DLLPDEKISLLPPVNFTIKVTGLAQVLLQWKPNPDQEQRNVNLEYQVKINAPKEDDYE TRITESKCVTILHKGFSASVRTILQNDHSSLASSWASAELHAPPGSPGTSIVNLTCTTN

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TTEDNYSRLRSYQVSLHCTWLVGTDAPEDTQYFLYYRYGSWTEECQEYSKDTLGR
 NIACWFPRTFILSKGRDWLAVLVNGSSKHSAIRPFDQLFALHAIDQINPPLNVTAEIEG
 TRLSIQWEKPVSAFPIHCFDYEVKIHNTRNGYLQIEKLMTNAFISIIDDLSKYDVQVRA
 AVSSMCREAGLWSEWSQPIYVGNDE

Endotoxin < 0.2 EU/μg, determined by LAL method.

Purity > 95% as analyzed by SDS-PAGE and HPLC.

Storage Lyophilized recombinant Human Interleukin-5 Receptor Alpha remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Interleukin-5 Receptor Alpha should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

Storage Buffer Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name [IL5RA interleukin 5 receptor, alpha \[Homo sapiens \]](#)

Official Symbol [IL5RA](#)

Synonyms IL5RA; interleukin 5 receptor, alpha; IL5R; interleukin-5 receptor subunit alpha; CD125; CDw125; CD125 antigen; IL-5R subunit alpha; IL-5 receptor subunit alpha; interleukin 5 receptor type 3; interleukin-5 receptor alpha chain; HSIL5R3; MGC26560;

Gene ID [3568](#)

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mRNA Refseq	NM_000564
Protein Refseq	NP_000555
MIM	147851
UniProt ID	Q01344

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