

Recombinant Human IL5RA protein, His-tagged

Cat. No. IL5RA-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL5RA(Asp21-Arg335) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	21-335 a.a.
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.
Form	Supplied as a 0.45 µm filtered solution in 50 mM NaH ₂ PO ₄ (pH 7.4), 0.3 M NaCl, 80 mM imidazole, 6 M urea.
Molecular Mass	38 kDa
Purity	>95%

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Applications	Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.
Storage	Upon arrival, the protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store at -20 centigrade or -80 centigrade in appropriate aliquots. Avoid repeated freeze-thaw cycles.

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
mRNA Refseq	NM_000564
Protein Refseq	NP_000555
MIM	147851
UniProt ID	Q01344
Chromosome Location	3p26-p24

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Pathway

Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; IL-5 Signaling Pathway, organism-specific biosystem; Immune System, organism-specific biosystem;

Function

interleukin-5 receptor activity; protein binding; receptor activity;

