

Recombinant Human interleukin 5 receptor, alpha Protein, His tagged

Cat. No. IL5RA-138H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human IL5RA protein (Q01344) (Asp 21-Glu 335) with a His tag at the C-terminus was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

21-335aa

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. Cell surface receptor that plays an important role in the survival, differentiation, and chemotaxis of eosinophils. Acts by forming an heterodimeric receptor with CSF2RB subunit and subsequently binding to interleukin-5. In unstimulated conditions, interacts constitutively with JAK2. Heterodimeric receptor activation leads to JAK2 stimulation and subsequent activation of the JAK-STAT pathway.

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Tag	C-His
Molecular Mass	37.2 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

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

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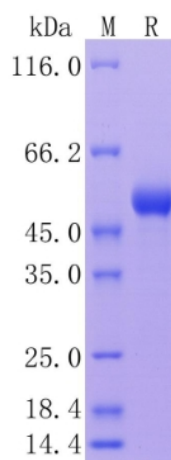
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Protein Refseq NP_000555

MIM 147851

UniProt ID Q01344

Protein on SDS-PAGE under reducing (R) condition.



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