Recombinant Human IL-5RA/CD125 Protein

Catalog No.: RP01783

Sequence Information

Species
Human

Gene ID
3568

Swiss Prot
Q01344-1

Tags
C-His

Synonyms
IL5R; CD125; CDw125; HSIL5R3; IL5RA

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
38.79 kDa

Observed MW
50-60 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 that is particularly important in the development of asthma for the terminal differentiation, activation, and survival of committed eosinophil precursors.

Basic Information

Description
Recombinant Human IL-5RA/CD125 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Glu335) of human IL-5RA/CD125 (Accession #NP_000555.2) fused with and a 6×His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

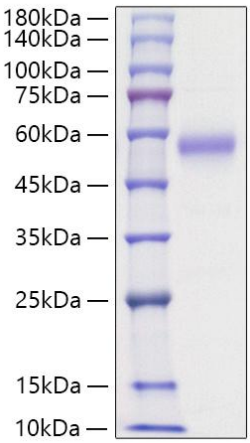
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human IL-5RA/CD125 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.