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Recombinant Human IL-3RA/CD123 Protein

Catalog No.: RP00443 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3563 P26951-1

Tags

C-hFc

Synonyms

CD123; IL-3R subunit alpha; IL3R; IL3RA; IL-3Ra; IL3RAY; IL3RX; IL3RY; MGC34174; IL-3 R alpha

Product Information

Source Purification

HEK293 cells ≥ 90 % as determined by SDS-

PAGE;≥ 90 % as determined by HPLC.

TIFLO

Calculated MW Observed MW

59.7 kDa 70-80 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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.

Contact

Background

Interleukin-3 receptor subunit alpha, also known as IL-3 receptor subunit alpha, IL-3R-alpha, CD123, and IL3RA, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 5 subfamily. The specific alpha subunit of the interleukin-3 receptor (IL-3Ralpha, CD123) is strongly expressed in various leukemic blasts and leukemic stem cells and seems to be an excellent target for the therapy of leukemias.

Basic Information

Description

Recombinant Human IL-3RA/CD123 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr19-Arg305) of Human IL-3 R alpha/CD123 (Accession #P26951-1) fused with a C-hFc tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

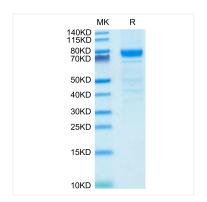
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

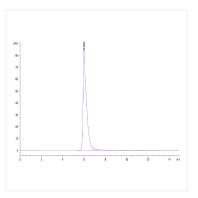
Operational Notes

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

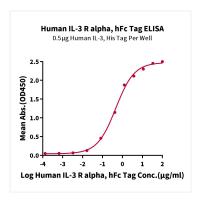
Validation Data



Recombinant Human IL-3RA/CD123 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human IL-3 R alpha is greater than 90% as determined by SEC-HPLC.



Immobilized Human IL-3, His Tag at 5 μ g/mL (100 μ L/well) on the plate. Dose response curve for Human IL-3 R alpha, hFc Tag with the EC₅₀ of 0.46 μ g/mL determined by ELISA.