

RP00443

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Recombinant Human IL-3RA/CD123 Protein

Catalog No.: RP00443

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	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

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Purification

≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

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

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

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.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

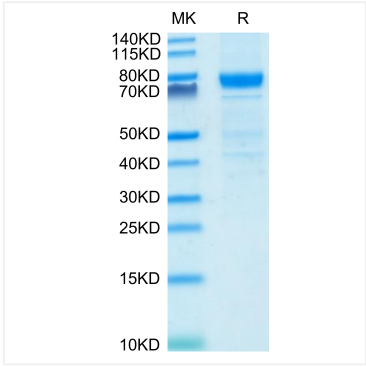
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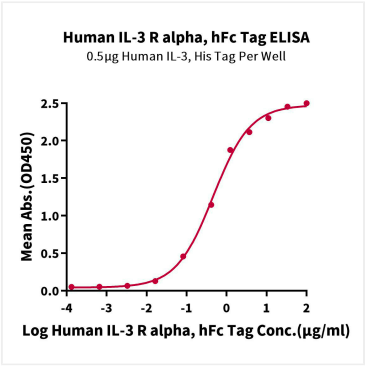


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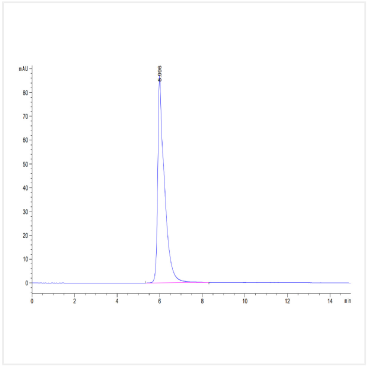
Validation Data



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



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



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