

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% by SDS-PAGE > 90% by HPLC

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

Contact

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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

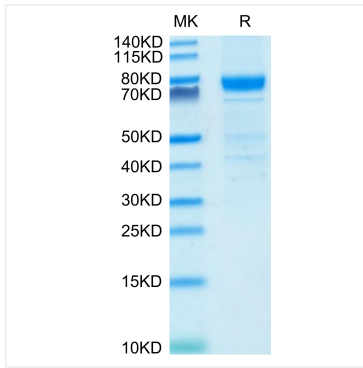
Storage

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

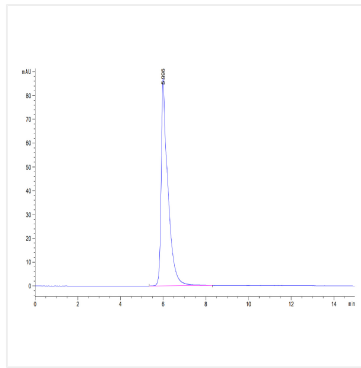
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

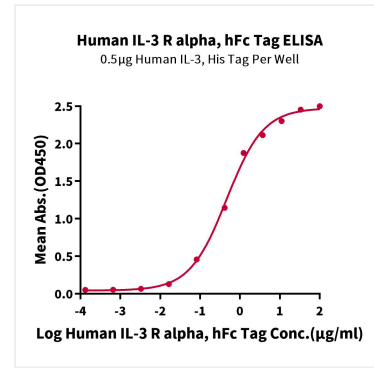
Validation Data



Human IL-3 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 90%.



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 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.