

Recombinant Human IL-3RA/CD123 Protein

Catalog No.: RP00121 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3563	P26951

Tags

C-His

Synonyms

IL3RA;CD123;IL3R;IL3RAY;IL3RX;IL3RY;hL-3Ra

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
33.82 kDa	50-65 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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

The protein encoded by this gene is an interleukin 3 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 IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3. This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudoautosomal region on chromosomes X or Y. Alternatively spliced transcript variants encoding distinct isoforms have been found.

Basic Information

Description

Recombinant Human IL-3RA/CD123 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Lys20-Arg305) of human IL3RA/CD123 (Accession #NP_002174.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant Human IL3 at 4 μg/mL (100 μL/well) can bind recombinant Human IL3RA, the EC₅₀ of Human IL3RA is 5.3 μg/mL.

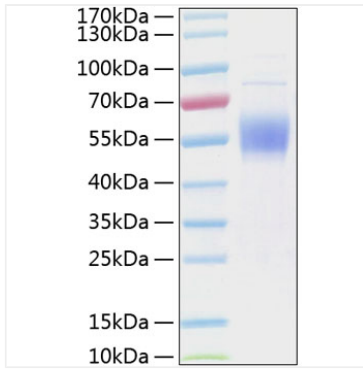
Storage

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

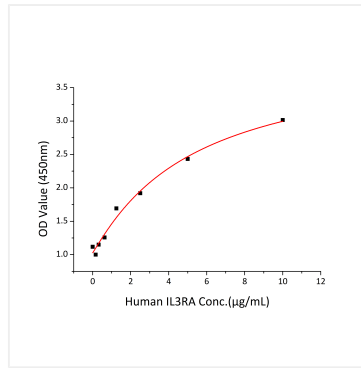
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human VEGFR3/FLT4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-65 kDa.



Immobilized recombinant Human IL3 at 4µg/mL (100µL/well) can bind recombinant Human IL3RA, the EC_{50} of Human IL3RA is 5.3 µg/mL.