

Recombinant Human IL-11R alpha Protein

Catalog No.: RP03584 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3590	Q14626-1

Tags

C-His

Synonyms

IL-11R subunit alpha; IL-11R-alpha;
IL-11RA; IL11RA

Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

Calculated MW	Observed MW
38.8 kDa	Due to glycosylation, the protein migrates to 50-55 kDa based on Bis-Tris PAGE result.

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22μm filtered solution in 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 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

Abstract Interleukin-11 (IL-11) is a pleiotropic cytokine that belongs to gp130 family. IL-11 and its receptor, IL-11Ra, are expressed in human cancers, human cancer cells expressed a functional IL-11Ra subunit, which triggered signal transduction either by exogenous recombinant human IL-11 or by autocrine production of IL-11 in cells cultured under hypoxic conditions.

Basic Information

Description

Recombinant Human IL-11R alpha Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser24-Ala370) of Human IL-11R alpha (Accession #NP_001136256.1) fused with a His tag at the C-terminus.

Bio-Activity

Human IL-11R alpha, His Tag immobilized on CM5 Chip can bind Human IL-11, His Tag with an affinity constant of 1.86 nM as determined in SPR assay (Biacore T200).

Shipping

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

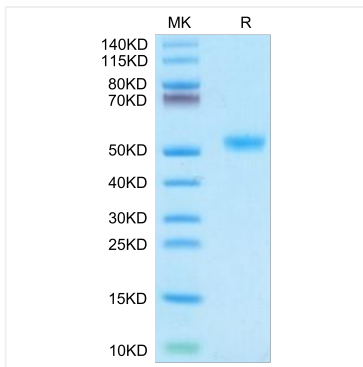
Storage

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.

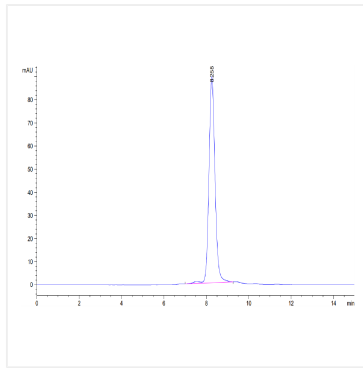
Operational Notes

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

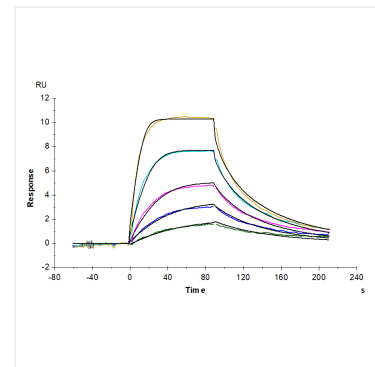
Validation Data



Human IL-11R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of Human IL-11R alpha is greater than 95% as determined by SEC-HPLC.



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