Recombinant Human IL-11R alpha Protein

Catalog No.: RP03584

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Sequence Information

Species
Human

Gene ID
3590

Swiss Prot
Q14626-1

Tags
C-His

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

Product Information

Source
HEK293 cells

Purification
> 95% as determined by HPLC

Calculated MW
38.8 kDa

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

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.

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
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.

Storage
Store at -20℃

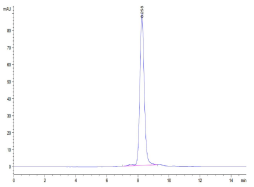
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

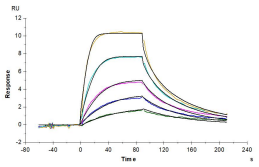
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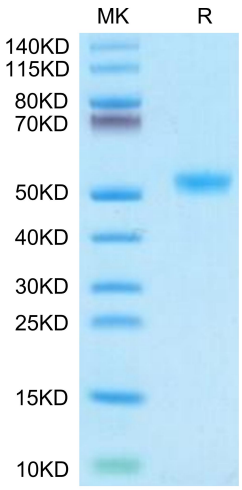
Validation Data



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



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).



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