

Human IL-11 & IL-11 R alpha Protein, His Tag (MALS verified)

Catalog # IL1-H52H6



BIOSYSTEMS
Acro

Synonym

IL-11 & IL-11 R alpha

Source

Human IL-11 & IL-11 R alpha Protein, His Tag (IL1-H52H6) is expressed from human 293 cells (HEK293). It contains AA Ser 24 - Ala 370 & Pro 22 - Leu 199 (Accession # [P20809-1](#) & [Q14626-1](#)).

Predicted N-terminus: Ser 24

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 60 kDa. The protein migrates as 58-68 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

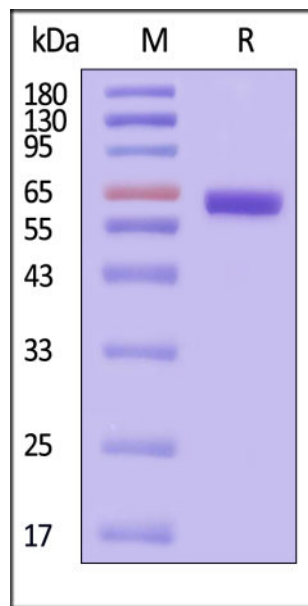
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

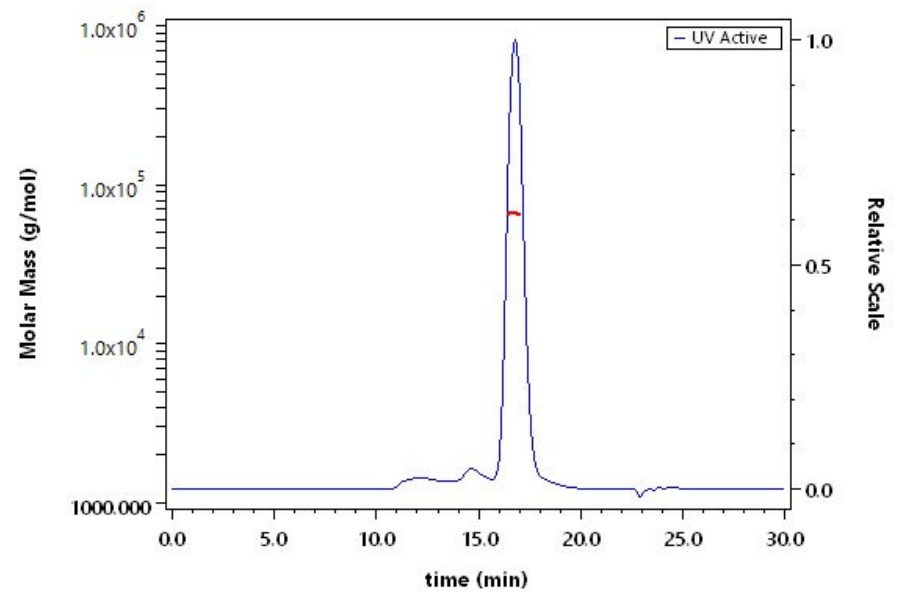
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



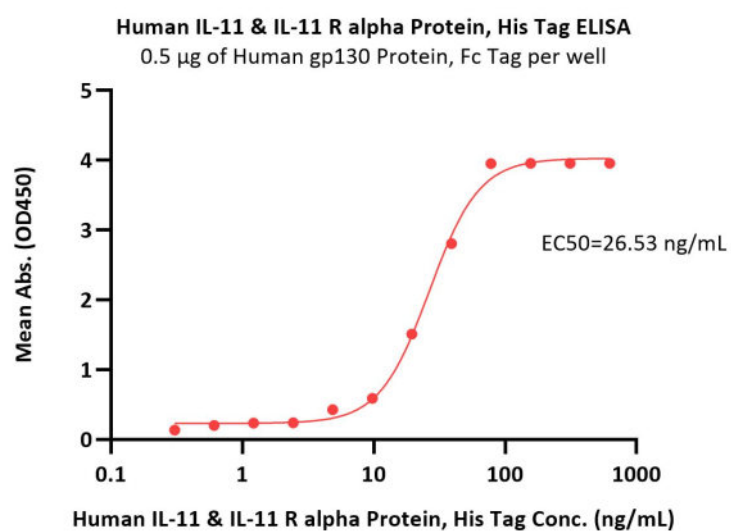
Human IL-11 & IL-11 R alpha Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



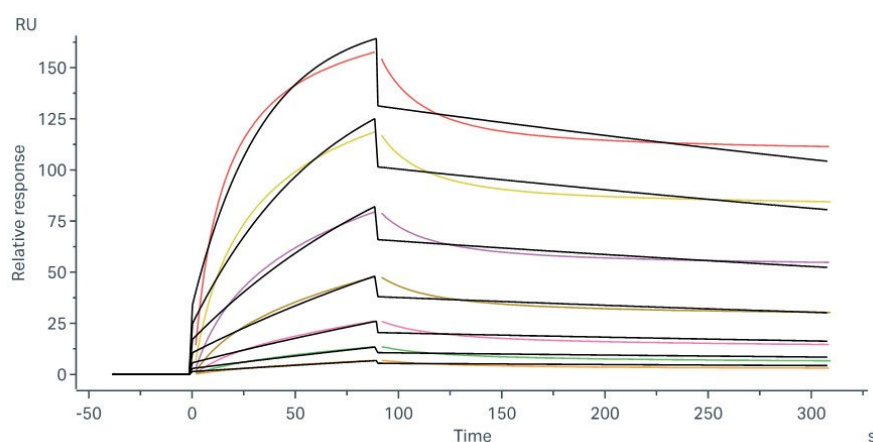
The purity of Human IL-11 & IL-11 R alpha Protein, His Tag (Cat. No. IL1-H52H6) is more than 85% and the molecular weight of this protein is around 60-80 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human gp130 Protein, Fc Tag (Cat. No. ILT-H5254) at 5 µg/mL (100 µL/well) can bind Human IL-11 & IL-11 R alpha Protein, His Tag (Cat. No. IL1-H52H6) with a linear range of 0.3-78 ng/mL (QC tested).

Bioactivity-SPR



Human gp130, His Tag (Cat. No. ILT-H52H2) immobilized on CM5 Chip can bind Human IL-11 & IL-11 R alpha Protein, His Tag (Cat. No. IL1-H52H6) with an affinity constant of 18.9 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Interleukin-11 (IL-11) is a pleiotropic cytokine that stimulates megakaryocytopoiesis, resulting in increased production of platelets, as well as activating osteoclasts, inhibiting epithelial cell proliferation and apoptosis, and inhibiting macrophage mediator production. These functions may be particularly important in mediating the hematopoietic, osseous and mucosal protective effects of IL-11. The cytokine also possesses anti-inflammatory activity, and

has been proposed as a therapeutic agent in the treatment of chronic inflammatory diseases, such as Crohn's disease and rheumatoid arthritis. The receptor systems for IL6, LIF, OSM, CNTF, IL11 and CT1 can utilize IL6ST for initiating signal transmission. The IL11/IL11RA/IL6ST complex may be involved in the control of proliferation and/or differentiation of skeletogenic progenitor or other mesenchymal cells. Soluble form of IL11 receptor (sIL11RA) that acts as an agonist of IL11 activity. The IL11:sIL11RA complex binds to IL6ST/gp130 on cell surfaces and induces signaling also on cells that do not express membrane-bound IL11RA in a process.

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