

**Synonym**

IL-11 R alpha,IL-11 RA,IL11RA,Interleukin-11 receptor subunit alpha,IL-11 receptor subunit alpha,IL-11R subunit alpha,IL-11R-alpha

Source

Biotinylated Mouse IL-11 R alpha Protein, Avitag(ILR-M82E8) is expressed from human 293 cells (HEK293). It contains AA Cys 26 - Gln 367 (Accession # [Q64385-1](#)).

Predicted N-terminus: Cys 26

Molecular Characterization

IL-11 RA(Cys 26 - Gln 367)
Q64385-1

Avi

This protein carries an Avi tag (Avitag™) at the C-terminus.

The protein has a calculated MW of 39.8 kDa. The protein migrates as 50 kDa and 55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>85% 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.

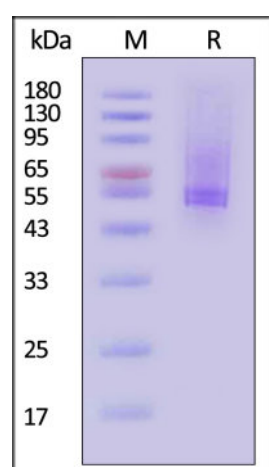
Storage

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.

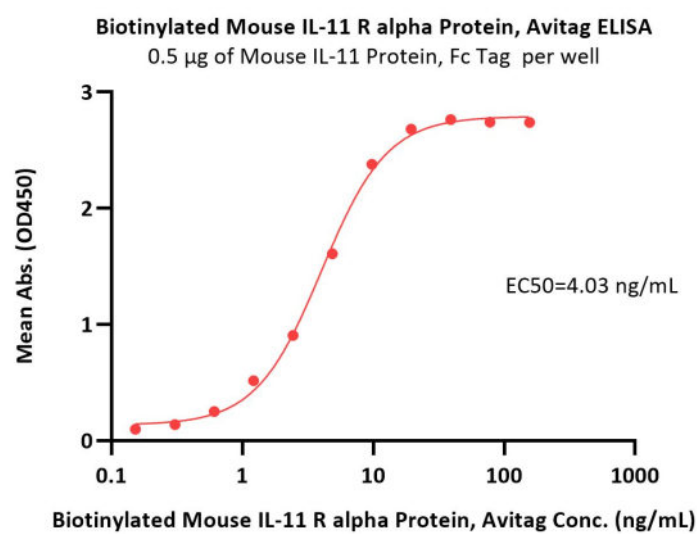
SDS-PAGE

Biotinylated Mouse IL-11 R alpha Protein, Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

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Immobilized Mouse IL-11 Protein, Fc Tag (Cat. No. IL1-M5243) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse IL-11 R alpha Protein, Avitag (Cat. No. ILR-M82E8) with a linear range of 0.1-5 ng/mL (QC tested).

Background

Receptor for interleukin-11 (IL11). 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 (Probable). Essential for the normal development of craniofacial bones and teeth. Restricts suture fusion and tooth number. 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 called IL11 trans-signaling.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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