

Mouse IL-13 R alpha 2 Protein, His Tag (MALS verified)

Catalog # IL2-M52H7



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

IL13RA2, CD213A2, CT19, IL-13R, IL13BP

Source

Mouse IL-13 R alpha 2 Protein, His Tag (IL2-M52H7) is expressed from human 293 cells (HEK293). It contains AA Leu 22 - Lys 334 (Accession # [O88786](#)).

Predicted N-terminus: Leu 22

Molecular Characterization

IL-13RA2(Leu 22 - Lys 334)

O88786

Poly-his

[Other Tags and Version Biotin & Other Labeled Version](#)

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

The protein has a calculated MW of 38.3 kDa. The protein migrates as 41-53 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

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

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.

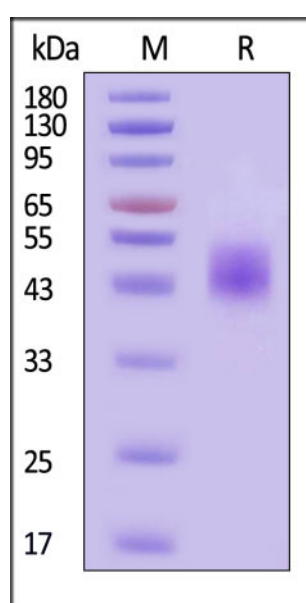
This product is stable after storage at:

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

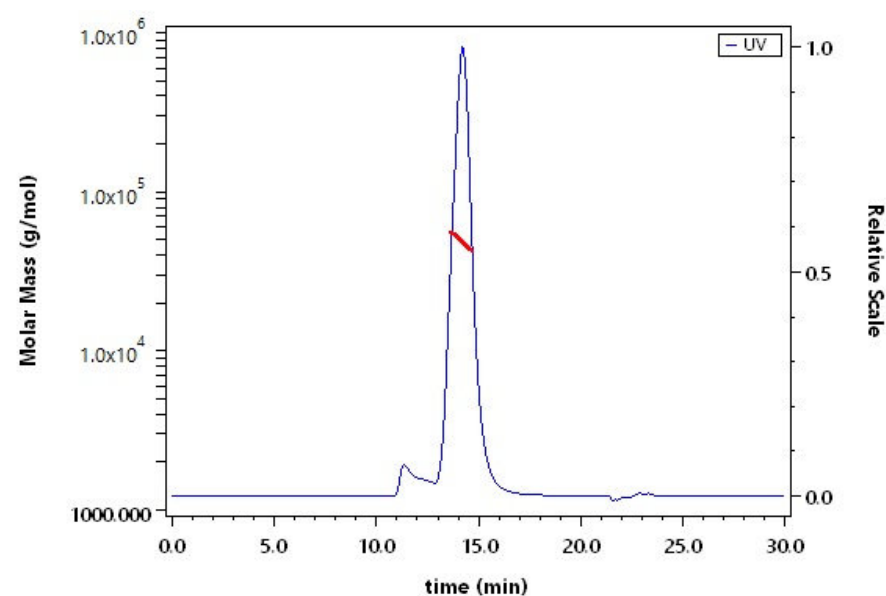
ACRO Quality Management System

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

SDS-PAGE



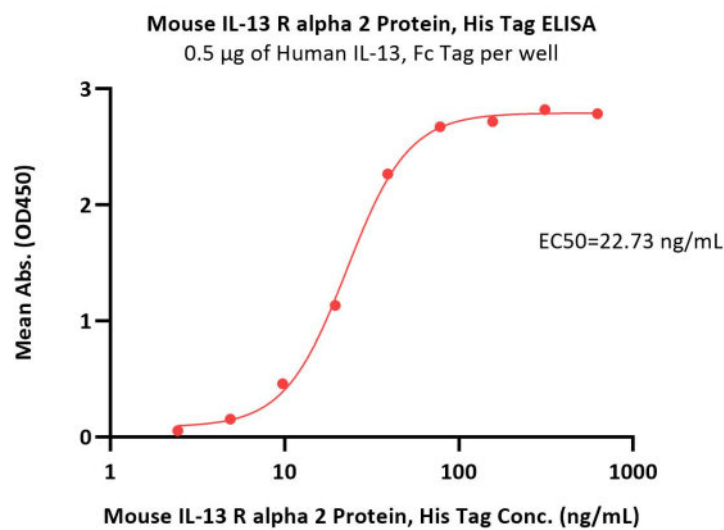
SEC-MALS



Mouse IL-13 R alpha 2 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 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

The purity of Mouse IL-13 R alpha 2 Protein, His Tag (Cat. No. IL2-M52H7) is more than 90% and the molecular weight of this protein is around 35-55 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-13, Fc Tag (Cat. No. IL3-H5256) at 5 µg/mL (100 µL/well) can bind Mouse IL-13 R alpha 2 Protein, His Tag (Cat. No. IL2-M52H7) with a linear range of 2-39 ng/mL (QC tested).

Background

Interleukin-13 receptor subunit alpha-2 is also known as IL13R α 2, IL13Ra2 cluster of differentiation 213A2, CD213A2, CT19, IL-13R, IL13BP, and is a membrane bound protein that in humans is encoded by the IL13RA2 gene. IL13R α 2 is closely related to IL13R α 1, a subunit of the interleukin-13 receptor complex. This protein binds IL13 with high affinity, but lacks any significant cytoplasmic domain, and does not appear to function as a signal mediator. It is, however able to regulate the effects of both IL13 and IL4, despite the fact it is unable to bind directly to the latter. It is also reported to play a role in the internalization of IL13. IL13R α 2 is a component of the cell surface receptors, however, the majority exists in intracellular pools and in soluble form, and thus plays an opposite role as a potent IL13 antagonist compared with IL13R α 1. It also functions as an inhibitor of IL4-dependent pathway probably through the physical interaction between the short intracellular domain of and cytoplasmic domain of IL13R α 2 and the IL4R α chain. In spite of the failed STAT signaling function, IL13R α 2 dose induce TGF-beta production and fibrosis. Additionally, IL13R α 2 has been reported to be abundantly and specifically overexpressed in glioblastoma multiforme.

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