

Mouse IL-18 R1 / CD218a Protein, His Tag, low endotoxin (MALS & SPR verified)

Catalog # IL1-M52H4



Synonyms

IL18R1, IL1RRP, CD218a, IL18Ra

Source

Mouse IL-18 R1 Protein, His Tag (IL1-M52H4) is expressed from human 293 cells (HEK293). It contains AA Lys 20 - Gly 326 (Accession # [Q61098](#)).

Predicted N-terminus: Lys 20

Molecular Characterization

IL-18 R1 (Lys 20 - Gly 326)
Q61098

Poly-His

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

The protein has a calculated MW of 37.2 kDa. The protein migrates as 55-75 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

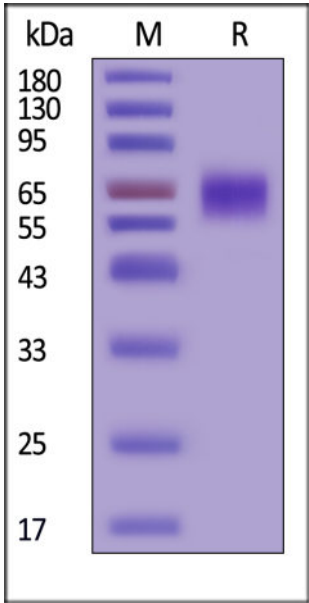
This product is stable after storage at:

- -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

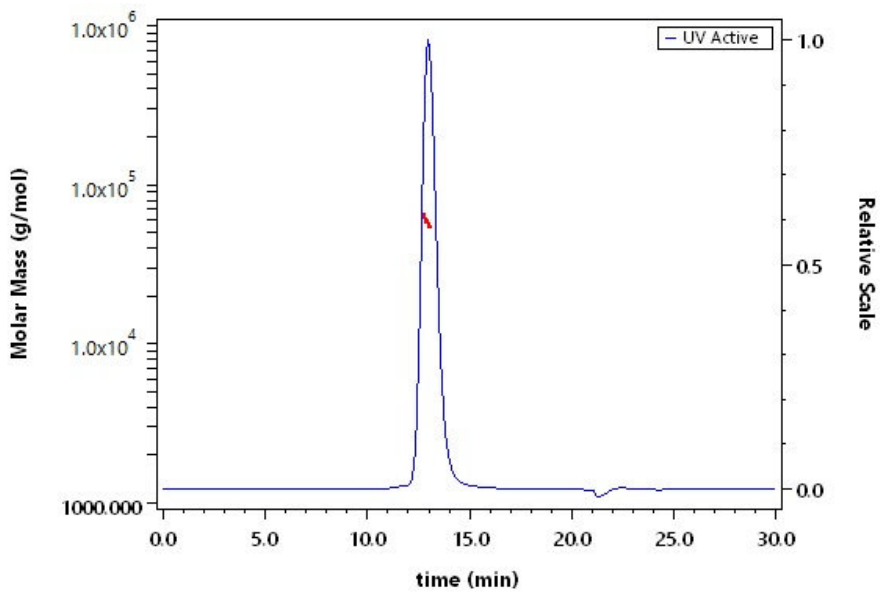
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



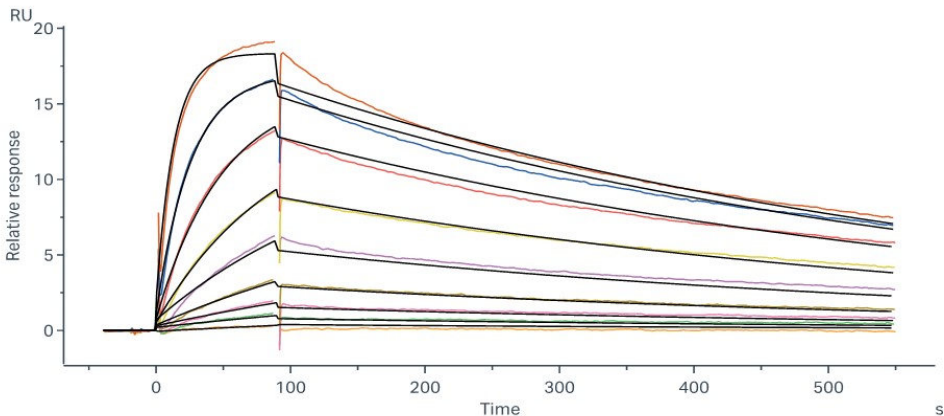
Mouse IL-18 R1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Mouse IL-18 R1 Protein, His Tag (Cat. No. IL1-M52H4) is more than 95% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.

Activity-SPR



Mouse IL-18 R1 Protein, His Tag (Cat. No. IL1-M52H4) immobilized on CM5 Chip can bind Mouse IL-18 Protein, His Tag (Cat. No. IL8-M51H3) with an affinity constant of 1.24 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Interleukin-18 receptor 1 (IL-18R1), also known as CD218 alpha (CD218a, formerly CDw218a), IL-1 receptor-related protein (IL-1Rrp), and IL-18R alpha, belongs to the interleukin-1 receptor superfamily. IL-18R1 contains three Ig-like C2-type (immunoglobulin-like) domains and one TIR domain. It is a receptor for interleukin-18 (IL-18). Binding of IL-18 to IL-18R1 leads to the activation of NF-κB. IL-18R1 does not bind IL-1 alpha (interleukin-1 alpha) or IL-1 beta (interleukin-1 beta).

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