

Rhesus macaque IL-18 Protein, Tag Free (MALS & SPR verified)

Catalog # IL8-R5113



BIOSYSTEMS
Acro

Synonym

IL-18, Interleukin-18, IL18, IL-1 gamma, IGIF, IL1F4, IL-1F4

Source

Rhesus macaque IL-18 Protein, Tag Free (IL8-R5113) is expressed from *E. coli* cells. It contains AA Try 37 - Asp 193 (Accession # [NP_001028006.1](#)).

Predicted N-terminus: Try 37

Molecular Characterization

IL-18(Try 37 - Asp 193)
NP_001028006.1

This protein carries no "tag".

The protein has a calculated MW of 18.3 kDa. The protein migrates as 15-17 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

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.

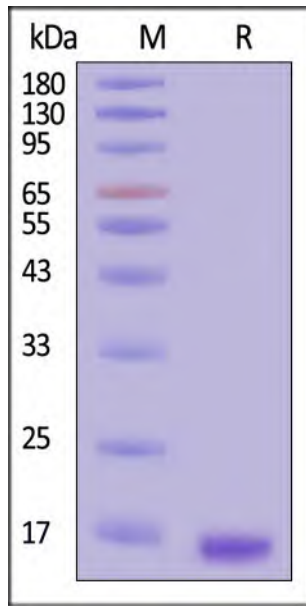
This product is stable after storage at:

- -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

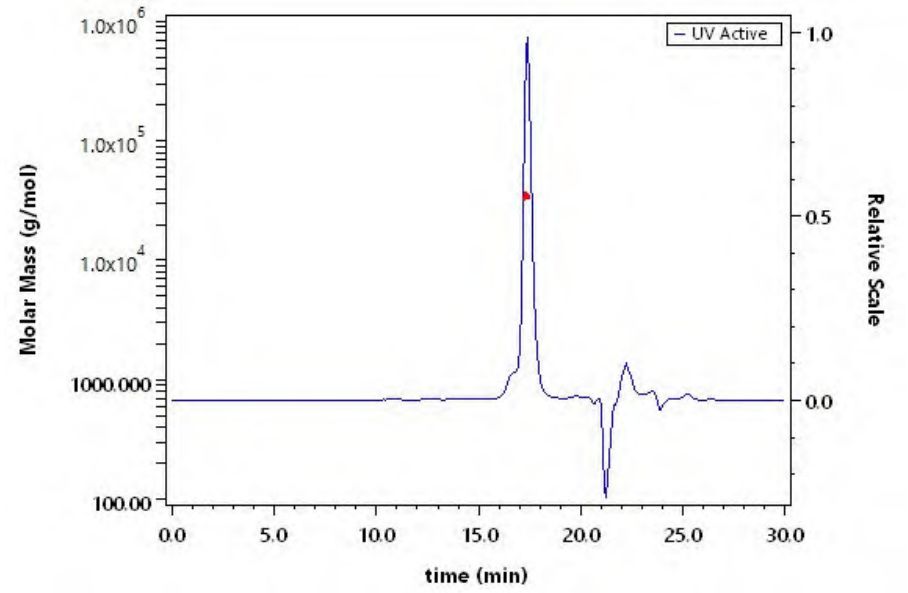
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



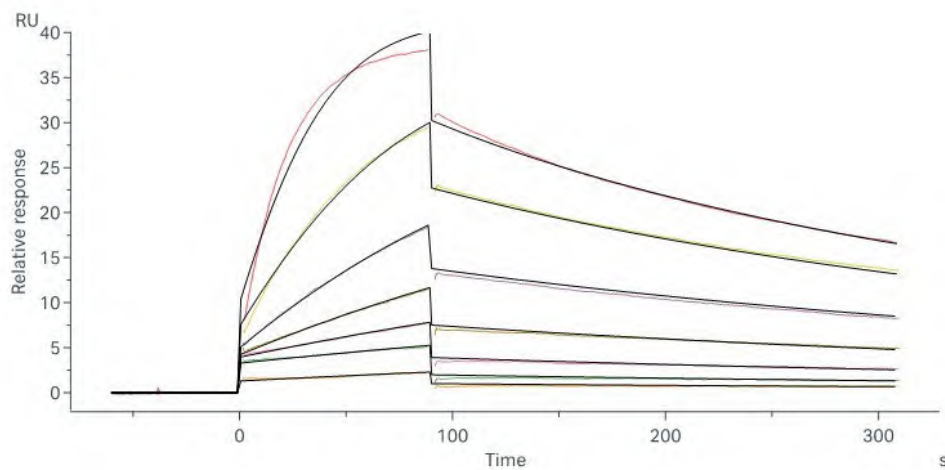
Rhesus macaque IL-18 Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Rhesus macaque IL-18 Protein, Tag Free (Cat. No. IL8-R5113) is more than 90% and the molecular weight of this protein is around 19-35 kDa verified by SEC-MALS.

Bioactivity-SPR



Human IL-18 R1, Fc Tag (Cat. No. IL1-H5259) captured on Protein A Chip can bind Rhesus macaque IL-18 Protein, Tag Free (Cat. No. IL8-R5113) with an affinity constant of 4.09 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Interleukin-18 (IL-18) is a potent proinflammatory cytokine that induces interferon-gamma (IFN-gamma) production from Th1 cells, NK cells and activated macrophages, particularly in the presence of IL-12. IL-18 also functions in developmental regulation of T-lymphocyte helper type I cells and in Fas-mediated cytotoxicity. Suppression of IL-18 activity is being investigated for treatment of chronic inflammatory diseases such as Crohn's disease and rheumatoid arthritis. It acts by inducing heterodimerization of the two subunits of its receptor, IL-18RA α and IL-18RB β shows structural similarity to IL-1.

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