

Synonym

IL18R1,IL1RRP,CD218a,IL18Ra

Source

Human IL-18 R1, Fc Tag(IL1-H5259) is expressed from human 293 cells (HEK293). It contains AA Ala 19 - Arg 329 (Accession # [AAH69575](#)).

Predicted N-terminus: Ala 19

Molecular Characterization

IL-18 R1(Ala 19 - Arg 329) AAH69575	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 62.4 kDa. The protein migrates as 80-95 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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.

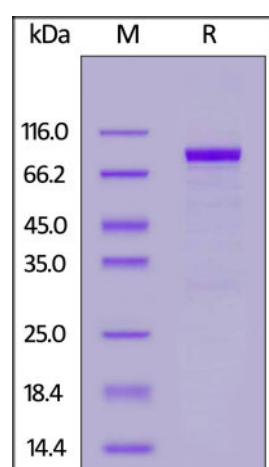
Storage

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

Please avoid repeated freeze-thaw cycles.

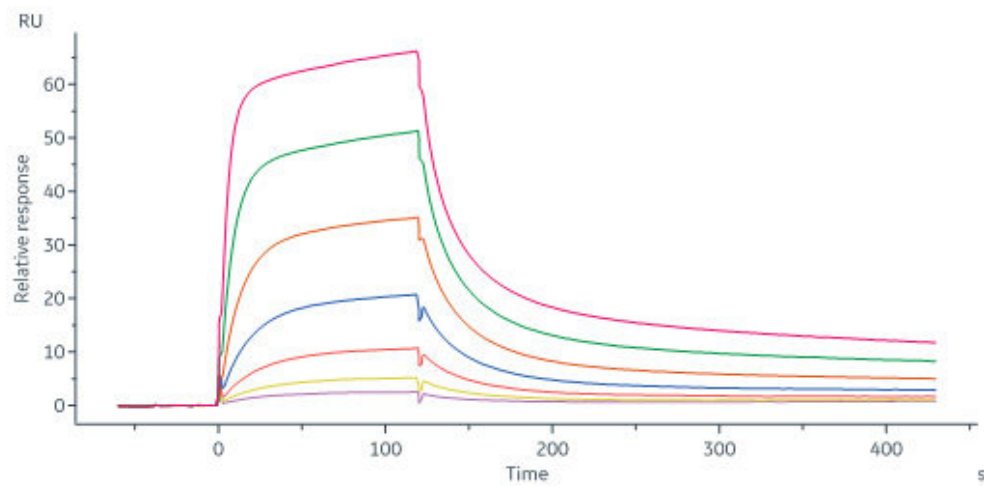
This product is stable after storage at:

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

SDS-PAGE

Human IL-18 R1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-SPR



Human IL-18 R1, Fc Tag (Cat. No. IL1-H5259) captured on CM5 chip via Anti-human IgG Fc antibodies surface can bind Human IL-18, Tag Free with an affinity constant of $0.409 \mu\text{M}$ as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Interleukin-18 receptor 1 (IL18R1) is also known as CD218 antigen-like family member A (CD218a), IL1 receptor-related protein (IL-1Rrp or IL1R-rp), CDw218a, IL18Ra, IL1RRP, which belongs to the interleukin-1 receptor family. IL18R1 contains three Ig-like C2-type (immunoglobulin-like) domains and one TIR domain. IL18R1 is receptor for interleukin 18 (IL-18). IL18R1 binds to the agonist leads to the activation of NF-kappa-B, but does not bind IL1A/interleukin-1 alpha or IL1B/interleukin-1 beta.

Clinical and Translational Updates

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