

Recombinant Human IL-18R1/CD218a Protein

Catalog No.: RP00097 **Recombinant**

Sequence Information

Species Human **Gene ID** 8809 **Swiss Prot** Q13478

Tags

C-hFc&His

Synonyms

IL18R1;CD218a;CDw218a;IL-1Rrp;IL18RA
;IL1RRP;IL18R1/IL-18 R alpha

Background

The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family. This receptor specifically binds interleukin 18 (IL18), and is essential for IL18 mediated signal transduction. IFN-alpha and IL12 are reported to induce the expression of this receptor in NK and T cells. This gene along with four other members of the interleukin 1 receptor family, including IL1R2, IL1R1, ILRL2 (IL-1Rrp2), and IL1RL1 (T1/ST2), form a gene cluster on chromosome 2q. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Basic Information

Description

Recombinant Human IL-18R1/CD218a Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Glu20-Arg329) of human IL18R1/CD218a (Accession #NP_003846.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized IL18R1 Mouse mAb at 1μg/mL (100 μL/well) can bind Human IL18R1 with a linear range of 0.03-1.06ng/ml.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source

HEK293 cells

Purification

≥ 85 % as determined by SDS-PAGE.

Calculated MW

62.49 kDa

Observed MW

80-105 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

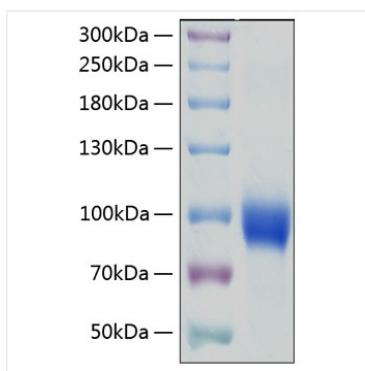
Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

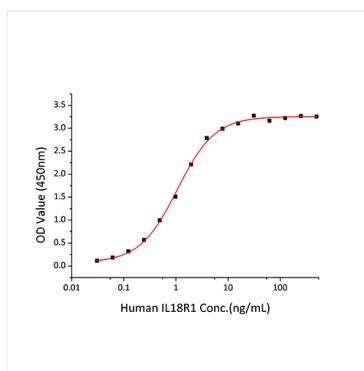
Contact

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Validation Data



Recombinant Human IL-18R1/CD218a
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.



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(100 μ L/well) can bind Human IL18R1 with a
linear range of 0.03-1.06ng/ml.