

Recombinant Human IL-18R1/CD218a Protein

Catalog No.: RP00097 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 8809 | Q13478 |

Tags

C-hFc&His

Synonyms

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

Product Information

| Source | Purification |
|--------------|--------------------|
| HEK293 cells | > 85% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 62.49 kDa | 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 free-thaw cycles.

Contact

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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, 6xHis 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.

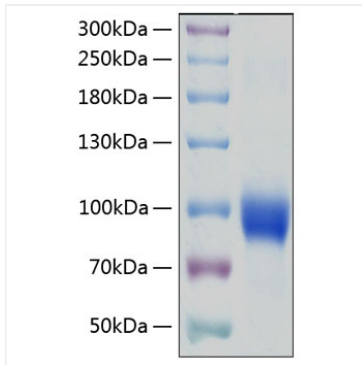
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

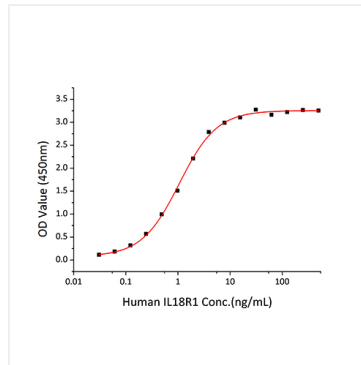
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IL-18R1/CD218a Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 80-105 kDa.



Immobilized IL18R1 Mouse mAb at 1 μ g/mL (100 μ L/well) can bind Human IL18R1 with a linear range of 0.03-1.06ng/ml.