

Recombinant Human IL-1R2/CD121b Protein

Catalog No.: RP01028 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	7850	P27930

Tags

C-His

Synonyms

IL1R2;CD121b;CDw121b;IL-1R-2;IL-1RT-2
;IL-1RT2;IL1R2c;IL1RB

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
40.06 kDa	55-65 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

Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competitive binding to IL1B and preventing its binding to IL1R1. Also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors.

Basic Information

Description

Recombinant Human IL-1R2/CD121b Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Glu343) of human IL1R2 (Accession #NP_004624.1) fused with a 6×His tag at the C-terminus.

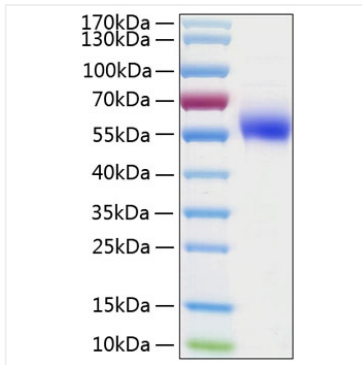
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IL1R2 at 2 μg/mL (100 μL/well) can bind Human IL1RA with a linear range of 31.25-43.5 ng/mL.

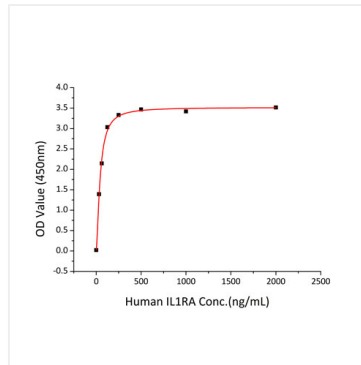
Storage

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-1R2/IL-1RT2/CD121b Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-65 kDa.



Immobilized Recombinant Human IL1R2 at 2 μ g/mL (100 μ L/well) can bind Human IL1RA with a linear range of 31.25-43.5 ng/mL.