

Recombinant Human IL-1R1 Protein

Catalog No.: RP00450 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3554	P14778

Tags
No Tag

Synonyms

IL-1R-1; IL-1RT1; IL-1R-alpha; CD121a;
IL-1 RI; IL1R; IL1RI; IL-1RI; p80; D2S1473;
IL1RA

Product Information

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

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.


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.

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Background

Interleukin 1 (IL-1) has long been known for its pleiotropic effects on inflammation that plays a complex, and sometimes contrasting, role in different stages of cancer development. IL-1R1 is the main receptor for both ligands and is expressed by various cell types, including innate and adaptive immune cell types, epithelial cells, endothelial cells, adipocytes, chondrocytes, fibroblasts, etc. IL-1 and IL-1R1 receptor interaction leads to a set of common signaling pathways, mainly the NF-κB and MAP kinase pathways, as a result of complex positive and negative regulations.

Basic Information

Description

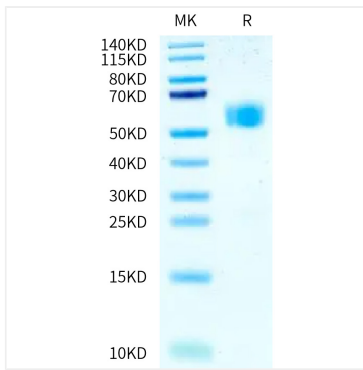
Recombinant Human IL-1R1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu18-Thr332) of Human IL-1R1 (Accession #P14778) fused with No Tag.

Bio-Activity

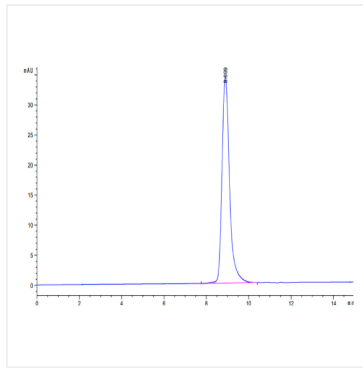
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. 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.

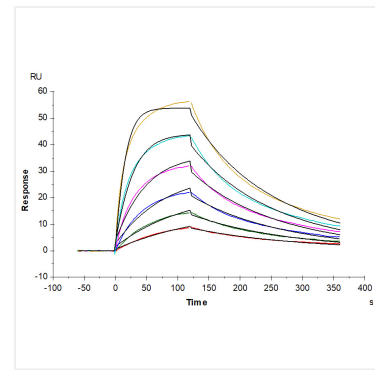
Validation Data



Human IL-1R1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human IL-1R1 is greater than 95% as determined by SEC-HPLC.



Human IL-1 Beta, His Tag captured on CM5 Chip via Anti-his antibody can bind Human IL-1R1, No Tag with an affinity constant of 11.37 nM as determined in SPR assay (Biacore T200).