

Recombinant Human IL-1R1/CD121a Protein

Catalog No.: RP00453

Sequence Information

Species **Gene ID**
Human 3554

Swiss Prot **Tags**
P14778 C-His

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 % as
 determined by
 SDS-PAGE; ≥ 95
 % as determined
 by HPLC.

Calculated MW **Observed MW**
37 kDa 55-68 kDa

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 free-thaw cycles.

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/ CD121a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu18-Thr332) of Human IL-1R1/ CD121a (Accession #P14778) fused with a C-His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

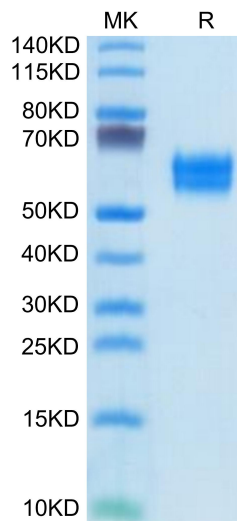
Contact

☎ | 400-999-6126

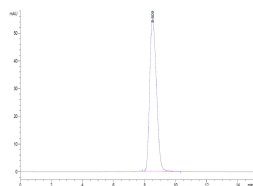
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

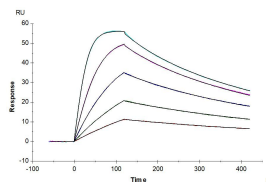
Validation Data



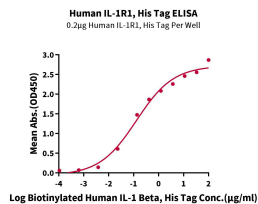
Recombinant Human IL-1R1/CD121a Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Human IL-1R1, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-1 alpha, No tag with an affinity constant of 0.51 nM as determined in SPR assay (Biacore T200).



Immobilized Human IL-1R1, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human IL-1 Beta, His Tag with the EC₅₀ of 0.13 µg /mL determined by ELISA (QC Test).