Recombinant Human IL-1R3/IL-1RAcP/IL1RAP Protein

Catalog No.: RP01382

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Sequence Information

Species	Gene ID
Human	3556
Swiss Prot	**Tags**
Q9NPH3-1	C-hFc

Synonyms
IL1RAP,C3orf13,IL-1RAcP,IL1R3

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.
Calculated MW	**Observed MW**
65.07 kDa	90-100 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.

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 stablizer (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 receptor accessory protein (IL-1RAcP) also known as Interleukin-1 receptor member 3 (IL-1R3) is a cytokine receptor that binds interleukin 1. The IL-1 receptor accessory protein (IL1RAP) is a transmembrane protein that interacts with IL-1R and is required for IL-1 signal transduction. Interleukin 1 induces the synthesis of the acute phase and proinflammatory proteins during infection, tissue damage, or stress, by forming a complex at the cell membrane with an interleukin 1 receptor and an accessory protein. IL-1RAcP/IL-1R3 is a necessary part of the interleukin 1 receptor complex which initiates signaling events that result in the activation of interleukin 1-responsive genes. Alternative splicing of this gene results in two transcript variants encoding two different isoforms, one membrane-bound and one soluble. The ratio of soluble to membrane-bound forms increases during acute-phase induction or stress. IL-1RAcP/IL-1R3 mediates interleukin-1-dependent activation of NF-kappa-B. Isoform 1 is part of the membrane-bound form of the IL-1 receptor. Signaling involves the formation of a ternary complex containing IL1R1, TOLLIP, MYD88, and IRAK1 or IRAK2. Isoform 2 modulates the response to interleukins by associating with soluble IL1R1 and enhancing interleukin-binding to the decoy receptor.

Basic Information

Description
Recombinant Human IL-1R3/IL-1RAcP/IL1RAP Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser21-Glu359) of human IL1RAP/IL1R3 (Accession #NP_002173.1) fused with a hFc 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℃

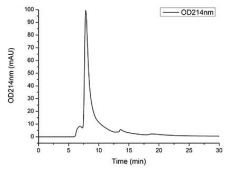
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

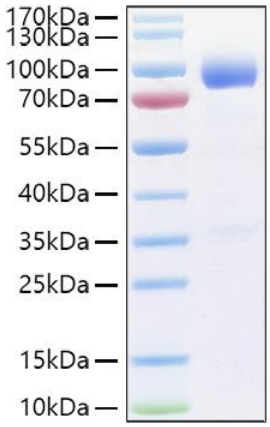
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Validation Data



The purity of Human IL1RAP/IL1R3 Protein (Cat.RP01382) was greater than 90% as determined by SEC-HPLC.



Recombinant Human IL-1R3/IL-1RAcP/IL1RAP Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.