

## IL-1RL2 Protein, Human, Recombinant (C154S&C262S, His)

### General Information

Synonyms:	IL1R-rp2;IL-1Rrp2;IL1RRP2;IL-36R;interleukin 1 receptor like 2
Protein Construction:	Asp20-Tyr337(C154S,C262S)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9HB29-1
Molecular Weight:	37.2 kDa (Predicted); 56-67 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human IL-1 Rrp2 (C154S,C262S) , His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-IL-1 Rrp-2 Antibody, hFc Tag with the EC50 of 15.1 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

The Interleukin 1 receptor family (IL-1 R) comprises at least eleven members including IL-1 RI (IL-1 R1), IL-1 RII (IL-1 R2), IL-1 RACp (IL-1 R3), ST2 (T1/IL-1 R4), IL-18 Ra (IL-1 Rrp/IL-1 R5), IL-1 Rrp2 (IL-1 RL2/IL-1 R6), IL-18 Rb (AcPL/IL-1 R7), IL-1RAPL-1 (TIGIRR-2/IL-1 R8), and TIGIRR-1 (IL-1 R9). IL1RL2 is a receptor for interleukin-36 (IL36A, IL36B and IL36G). After binding to interleukin-36 associates with the coreceptor IL1RAP to form the interleukin-36 receptor

complex which mediates interleukin-36-dependent activation of NF-kappa-B, MAPK and other pathways.

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