

IL-1R2 Protein, Mouse, Recombinant (His) V2

General Information

Synonyms:	Il1r-2;interleukin 1 receptor, type II;CD121b
Protein Construction:	Phe14-Glu355
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P27931
Molecular Weight:	39.2 kDa (Predicted); 60-70 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Mouse IL-1R2, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Mouse IL-1 Beta, His Tag with the EC50 of 1.2 µg/ml determined by ELISA (QC Test).
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 0.22 µm 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 sterile deionized 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:

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

Interleukin (IL)-1 has been reported to be involved in the development of tuberculosis (TB). IL1R1 and IL1R2 encode a cytokine receptor that belongs to the IL-1 receptor family. IL1R2 (Interleukin 1 Receptor Type 2) is a Protein Coding gene. Diseases associated with IL1R2 include Endometriosis and Mastitis. Among its related pathways are Hematopoietic cell lineage and IL-1 signaling pathway. Gene Ontology (GO) annotations related to this gene include interleukin-1 receptor activity and interleukin-1, type II, blocking receptor activity.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481