Recombinant Mouse IL1R1/CD121a Protein (Fc Tag)

Catalog No. PKSM041047

Note: Centrifuge before opening to ensure complete recovery of vial contents.

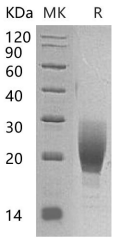
Description

Synonyms	Interleukin-1 receptor type 1;IL-1R-1;IL-1RT-1;IL-1RT1;CD121 antigen-like family member A;Interleukin-1 receptor alpha;IL-1R-alpha;p80;CD121a;mIL-1R1
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Leu20-Lys338
Accession	P13504
Calculated Molecular Weight	64.0 kDa
Observed molecular weight	85-110 kDa
Tag	C-Fc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Mouse Interleukin-1 receptor type 1/IL-1 RI is a cytokine receptor that belongs to the interleukin-1 receptor family. This

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protein is a receptor for interleukin 1 alpha (IL1A), interleukin 1 beta (IL1B), and interleukin 1 receptor antagonist (IL1RA). It is an important mediator involved in many cytokine induced immune and inflammatory responses. An IL1 receptor accessory protein that can heterodimerize with the Type I receptor in the presence of IL1α or IL1βbut not IL1ra, was identified. This Type I receptor complex appears to mediate all the known IL1 biological responses. The receptor Type II has a short cytoplasmic domain and does not transduce IL1 signals. In addition to the membranebound form of IL1 RII, a naturallyoccurring soluble form of IL1 RII has been described. It has been suggested that the Type II receptor, either as the membranebound or as the soluble form, serves as a decoy for IL1 and inhibits IL1 action by blocking the binding of IL1 to the signaling Type I receptor complex.

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