

Active Recombinant Mouse Interleukin 1 Receptor, Type I, His-tagged

Cat. No. Il1r1-5652M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1r1 protein was expressed in Murine myeloma cell line Asp22-Arg338 (Ala158Val), with a C-terminal 6-His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	22-338 a.a.
Description	Il1r1 is a member of the IL-1 R/TLR superfamily. Members of this superfamily have a characteristic Toll-IL-1 R (TIR) domain in their cytoplasmic region. This superfamily can be further divided into three subgroups based on extracellular region analogies. Il1r1 belongs to Subgroup 1 which is characterized by the presence of at least one immunoglobulin-like domain. Mouse Il1r1 is a 70 kDa type I transmembrane glycoprotein that is synthesized as a 574 amino acid (aa) precursor. The precursor contains a 21 aa signal sequence, a 317 aa extracellular region, a 21 aa transmembrane segment, and a 215 aa cytoplasmic domain.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Asp22
Molecular Weight	36.8 kDa

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Activity	Measured by its binding ability in a functional ELISA. Immobilized rmIL-1F5, rmIL-1F6, or rmIL-1F8 at 1 µg/mL (100 µL/well) can bind rm IL1r1/his with a linear range of 0.078-5 µg/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	55-68 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	IL1r1 interleukin 1 receptor, type I [<i>Mus musculus</i>]
Official Symbol	IL1r1
Synonyms	IL1r1; interleukin 1 receptor, type I; IL-1R; CD121a; CD121b; IL1r-1; interleukin-1 receptor type 1; p80; IL-1R-1; IL-1RT1; IL-1RT-1; IL-1R-alpha; IL-1 receptor alpha chain; interleukin-1 receptor alpha; interleukin-1 receptor type I; CD121 antigen-like family member A
Gene ID	16177
mRNA Refseq	NM_001123382

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Protein Refseq	NP_001116854
UniProt ID	Q9ERS7
Chromosome Location	1
Pathway	Amoebiasis;Apoptosis; Cytokine-cytokine receptor interaction; HTLV-I infection;Hematopoietic cell lineage; Hypertrophy Model; IL-1 Signaling Pathway; MAPKsignaling pathway; Osteoclast differentiation
Function	interleukin-1receptor activity; interleukin-1, Type I, activating receptor activity;ionotropic glutamate receptor binding; platelet-derived growth factorreceptor binding; protease binding; protein binding; receptor activity;signal transducer activity; transmembrane signaling receptor activity
PDBrendering based on 1g0y.	