

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

Cat. No. Il1r1-5651M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1r1 protein was expressed in <i>Spodoptera frugiperda</i> with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mouse Il1r1 Phe14-Glu355 (N-terminus).
Species	Mouse
Source	<i>S. frugiperda</i>
Protein Length	14-355 a.a.
Description	Two distinct types of receptors that bind the pleiotropic cytokines IL-1 α and IL-1 β have been described. The Il1r1 is an 80 kDa transmembrane protein that is expressed predominantly by T cells, fibroblasts, and endothelial cells. IL-1 receptor type II is a 68 kDa transmembrane protein found on B lymphocytes, neutrophils, monocytes, large granular leukocytes and endothelial cells. Both receptors are members of the immunoglobulin superfamily and show approximately 28% sequence similarity in their extracellular domains. The two receptor types do not heterodimerize in a receptor complex.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Phe14
Molecular Weight	64.7 kDa (monomer)

 Tel: 1-631-559-9269 1-516-512-3133

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Activity	Measured by its ability to inhibit IL-1 α -dependent proliferation in D10.G4.1 mouse helper T cells. Approximately 2-8 μ g/mL of IL-1 RII will inhibit 50% of the biological response due to 50 pg/mL of recombinant mouse IL-1 α .
Endotoxin Level	<1.0EU per 1 μ g of the protein by the LAL method.
SDS-PAGE	70-80kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	500 μ g/mL in sterile PBS
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 [Mus musculus]
Official Symbol	Il1r1
Synonyms	Il1r1; interleukin 1 receptor, type I; IL-iR; 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	Q4FK69
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

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