

Recombinant Mouse Interleukin 1 Receptor-like 1, Fc-tagged

Cat. No. Il1rl1-1752M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1rl1 encoding the extracellular domain (amino acid residues Met 1 - Ser 342) was fused to the Fc region of human IgG1 via a polypeptide linker, inserted into a suitable baculovirus expression vector and expressed in <i>Sf21 cells</i> .
Species	Mouse
Source	Sf21 Cells
ProteinLength	1-342 a.a.
Description	ST2 belongs to the immunoglobulin superfamily and bears significant amino acid identity (~25%) to the extracellular portion of both type I and type II interleukin 1 receptors (IL-1R). Some of the intracellular residues that are required for signal transduction through the IL-1R and are conserved in the Drosophila Toll protein are also found in the membrane form of ST2. Furthermore, the gene for ST2 was mapped to mouse chromosome 1 closely linked to the il-1r locus containing both type I and type II receptor genes in support of their common ancestry.
Molecular Weight	The predicted molecular weight of Recombinant Mouse IL-1 R4 is Mr 63 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 73 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.

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Endotoxin	<0.1 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Mouse IL-1 R4 was determined by its ability to bind rmIL-33 in a functional ELISA type binding assay. The estimated KD is < 50 nM.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Il1rl1 interleukin 1 receptor-like 1 [Mus musculus]
Synonyms	Il1rl1; interleukin 1 receptor-like 1; T1; St2; DER4; Ly84; ST2L; Fit-1; T1/ST2; St2-rs1; T1; lymphocyte antigen 84; ST2; T1 gene
Gene ID	17082
mRNA Refseq	NM_001025602
Protein Refseq	NP_001020773
UniProt ID	P14719
Chromosome Location	1 B; 1 20.0 cM
Function	interleukin-1 receptor activity; interleukin-33 binding; interleukin-33 receptor activity; protein binding; receptor activity; transmembrane receptor activity

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