

Recombinant Mouse Interleukin 1 Receptor, Type I

Cat. No. Il1r1-1753M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Mouse

Source Mammalian Cells

Description

Interleukin 1 receptor, type I (IL1R1) also known as CD121a (Cluster of Differentiation 121a), is an interleukin receptor. IL1R1 also denotes its human gene. The protein encoded by this gene is a cytokine receptor that belongs to the interleukin-1 receptor family. This protein is a receptor for interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA). It is an important mediator involved in many cytokine induced immune and inflammatory responses. This gene along with interleukin 1 receptor, type II (IL1R2), interleukin 1 receptor-like 2 (IL1RL2), and interleukin 1 receptor-like 1 (IL1RL1) form a cytokine receptor gene cluster in a region mapped to chromosome 2q12.

Molecular Weight

The predicted molecular weight of Recombinant Mouse IL-1 RI is Mr 63.8 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 95-110 kDa.

State Of Matter

Lyophilized.

Purity

>90% by SDS Page and analyzed by silver stain.

Endotoxin

<0.1 ng per 1 g as determined by the LAL method.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	Il1r1 interleukin 1 receptor, type I [Mus musculus]
Synonyms	Il1r1; interleukin 1 receptor, type I; IL-iR; CD121a; CD121b; Il1r-1; MGC129154; IL-1 receptor alpha chain; IL-iR
Gene ID	16177
mRNA Refseq	NM_001123382
Protein Refseq	NP_001116854
UniProt ID	P13504
Chromosome Location	1 B; 1 19.5 cM
Pathway	Apoptosis; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; MAPK signaling pathway
Function	interleukin-1 receptor activity; interleukin-1, Type I, activating receptor activity; protein binding; receptor activity; signal transducer activity; transmembrane receptor activity

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