

## 32-8800: Recombinant Mouse IL-1 Receptor Type 2/IL-1R-2 (C-Fc)

**Gene :** Il1r2  
**Gene ID :** 16178  
**Uniprot ID :** P27931

### Description

Source: Human Cells.  
MW :64.9kD.

Recombinant Mouse Interleukin-1 Receptor Type 2 is produced by our Mammalian expression system and the target gene encoding Phe14-Glu355 is expressed with a Fc tag at the C-terminus. Mouse Interleukin 1 receptor, type II (IL1R2) is a cytokine receptor that belongs to the interleukin-1 receptor family. This protein binds interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA), and acts as a decoy receptor that inhibits the activity of its ligands. IL-1R2 structurally consisting of a ligand binding portion comprised of three Ig-like domains, a single transmembrane region, and a short cytoplasmic domain. It is expressed in a variety of cell types including B lymphocytes, neutrophils, monocytes, large granular leukocytes and endothelial cells. Mouse IL1RII shares 59% amino acid sequence homology with human IL1 RII in their extracellular domains. The pleiotropic cytokine IL1 is produced to regulate development and maintenance of the inflammatory responses, and binds to specific plasma membrane receptors on cells. Two distinct types of IL1 receptors which are able to bind IL1 specifically have been identified, designated as IL1RI (IL1RA) and IL1RII (IL1RB). IL1R1 contributes to IL-1 signaling, whereas the IL-1R2 has no signaling property and acts as a decoy for IL-1.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.  
**Storage condition :** Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** FTTPTVVHTGKVSSESPITSEKPTVHGDNCQFRGREFKSELRLLEGEPVVLRCPLAPHSDISSSSHSFL  
TWSKLDSSQLIPRDEPRMWWKGNILWILPAVQQDSGTICTFRNASHCEQMSVELKVFKNTEASLP  
HVSYLQISALSTTGLLVCPDLKEFISSNADGKIQWYKGAILLDKGNKEFLSAGDPTRLLISNTSMDDA  
GYYRCVMTFTYNGQEYNITRNIELRVKGTTEPIPVIIISPLETIPASLGSRILVPCVKVFLGTGTSSNTIV  
WWLANSTFISAAYPRGRVTEGLHHQYSENDENYVEVSLIFDPVTREDLHTDFKCVASNPRSSQSL  
HTTVKEIEGRDMDPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHE  
DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK  
TISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS  
DGSFFLYSKLTVDKSRWQQGNVFSVMSVMEALHNHYTQKSLSLSPGK

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.