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## Product Datasheet

### Recombinant Mouse IL-1R2 (C-6His) EBT-EPT134

Article Name	Recombinant Mouse IL-1R2 (C-6His)
Biozol Catalog Number	EBT-EPT134
Supplier Catalog Number	EPT134
Alternative Catalog Number	EBT-EPT134-10
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Mouse II1r2 Protein/IL-1 RII is produced by our Mammalian expression system and the target gene encoding Phe14-Glu355 is expressed with a 6His tag at the C-terminus....
Molecular Weight	Molecular weight: 39 KDa. Apparent molecular weight: 45-60 KDa, reducing conditions
UniProt	<a href="#">P27931</a>
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test. Background: 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