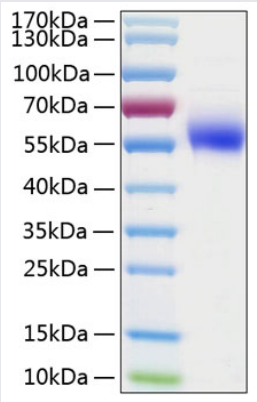
IL1R2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL1R2, Recombinant Protein
Full Product Name	Recombinant Human IL1R2 Protein
Product Gene Name	IL1R2 recombinant protein
Product Synonym Names	CD121b; CDw121b; IL-1R-2; IL-1RT-2; IL-1RT2; IL1R2c; IL1RB
Sequence	MLRLYVLVMG VSAFTLQPAA HTGAARSCRF RGRHYKREFR LEGEPVALRC PQVPYWLWAS VSPRINLTWH KNDSARTVPG EEETRMWAQD GALWLLPALQ EDSGTYVCTT RNASYCDKMS IELRVFENTD AFLPFISYPQ ILTLSTSGVL VCPDLSEFTR DKTDVKIQWY KDSLLLDKDN EKFLSVRGTT HLLVHDVALE DAGYYRCVLT FAHEGQQYNI TRSIELRIKK KKEETIPVII SPLKTISASL GSRLTIPCKV FLGTGTPLTT MLWWTANDTH IESAYPGGRV TEGPRQEYSE NNENYIEVPL IFDPVTREDL HMDFKCVVHN TLSFQTLRTT VKE
Host	HEK293 Cells
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Purity/Purification	>95% by SDS-PAGE.
Preparation and Storage	Store the lyophilized protein at -20 degree C to -80 degree C for long term. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.
OMIM	147811
3D Structure	ModBase 3D Structure for P27930
Species	Human
Endotoxin	< 0.1 EU/ug of the protein by LAL method.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Tag	6xHis tag at the C-terminus
Product Categories/Family for IL1R2 recombinant protein	Cytokines & Cytokine Receptors
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL1R2 recombinant protein	Description: Recombinant Human IL1R2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Glu343) of human IL1R2 (Accession #NP_004624.1) fused with a 6xHis tag at the C-terminus. Background: Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competetive binding to IL1B and preventing its binding to IL1R1. Also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors.
Other Notes	Small volumes of IL1R2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL1R2 purchase	MBS9141865 is a recombinant protein targeting IL1R2. Also known as Recombinant Human IL1R2 Protein. Host: HEK293 Cells.



SDS-Page of IL1R2 recombinant protein
Recombinant Human IL1R2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 48-56 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL1R2. It may not necessarily be applicable to this product.

NCBI GI #	387527984
NCBI GeneID	7850
NCBI Accession #	NP_001248348.1
UniProt Primary Accession #	P27930
UniProt Related Accession #	P27930
GenBank Nucleotide #	NP_001248348.1
NCBI Official Full Name	interleukin-1 receptor type 2 isoform 2
NCBI Official Synonym Full Names	interleukin 1 receptor type 2
NCBI Official Symbol	IL1R2
NCBI Official Synonym Symbols	IL1RB; CD121b; IL1R2c; CDw121b; IL-1R-2; IL-1RT2; IL-1RT-2
UniProt Protein Name	Interleukin-1 receptor type 2
UniProt Synonym Protein Names	CD121 antigen-like family member B; CDw121b; IL-1 type II receptor; Interleukin-1 receptor beta; IL-1R-beta; Interleukin-1 receptor type II
Protein Family	Interleukin-1 receptor
UniProt Gene Name	IL1R2
UniProt Synonym Gene Names	IL1RB; IL-1R-2; IL-1RT-2; IL-1RT2; IL-1R-beta; mIL-1R2; mIL-1RII; sIL-1R2; sIL-1RII
UniProt Entry Name	IL1R2_HUMAN
NCBI Protein Information	interleukin-1 receptor type 2
NCBI Summary for IL1R2	The protein encoded by this gene 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. Interleukin 4 (IL4) is reported to antagonize the activity of interleukin 1 by inducing the expression and release of this cytokine. This gene and three other genes form a cytokine receptor gene cluster on chromosome 2q12. Alternative splicing results in multiple transcript variants and protein isoforms. Alternative splicing produces both membrane-bound and soluble proteins. A soluble protein is also produced by proteolytic cleavage. [provided by RefSeq, May 2012]

UniProt Comments for IL1R2	IL-1RB: Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competetive binding to IL1B and preventing its binding to IL1R1. Also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors. Belongs to the interleukin-1 receptor family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 2q12 Cellular Component: integral to membrane; plasma membrane; extracellular region Molecular Function: protein binding; interleukin-1, Type II, blocking receptor activity; interleukin-1 receptor activity Biological Process: cytokine and chemokine mediated signaling pathway; immune response
Research Articles on IL1R2	**1.** Data indicate the association between genetic polymorphisms of interleukin 1 receptor type 1 (IL1R1) and interleukin 1 receptor type 2 (IL1R2) and tuberculosis (TB) susceptibility in the Chinese Han population. IL1R1 and IL1R2 and TB susceptibility in the Chinese Han population.
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