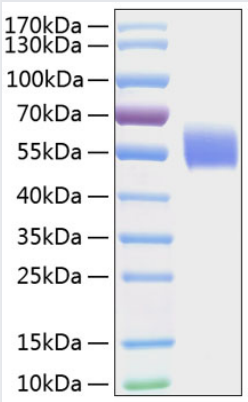
IL1R1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL1R1, Recombinant Protein
Full Product Name	Recombinant Human IL1R1 Protein
Product Gene Name	IL1R1 recombinant protein
Product Synonym Names	CD121A; IL-1 RI; IL-1R-alpha; IL-1R1; IL1R; IL1RA; P80 CD121A; D2S1473
Sequence	DKCKEREEKI ILVSSANEID VRPCPLNPNE HKGTITWYKD DSKTPVSTEQ ASRIHQHKEK LWFVPAKVED SGHYYCVVRN SSYCLRIKIS AKFVENEPNL CYNAQAIFKQ KLPVAGDGGL VCPYMEFFKN ENNELPKLQW YKDCKPLLLD NIHFSGVKDR LIVMNVAEKH RGNYTCHASY TYLGKQYPIT RVIEFITLEE NKPTRPVIVS PANETMEVDL GSQIQLICNV TGQLSDIAYW KWNGSVIDED DPVLGEDYYS VENPANKRRS TLITVLNISE IESRFYKHPF TCFAKNTHGI DAAYIQLIYP VT
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	147810
3D Structure	ModBase 3D Structure for P14778
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 IL1R1 recombinant protein	Cytokines & Cytokine Receptors
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL1R1 recombinant protein	Description: Recombinant Human IL1R1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp21-Thr332) of human IL1R1 (Accession #NP_000868.1) fused with a 6xHis tag at the C-terminus. Background: Interleukin 1 receptor, type I (IL-1R1) also known as CD121a (Cluster of Differentiation 121a), is an interleukin receptor. 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 1 alpha (IL1A), interleukin 1 beta (IL1B), and interleukin 1 receptor antagonist (IL1RA). The shape change and subsequent repair processes are IL-1beta activity-dependent, acting through the IL-1 type 1 receptor (IL-1R1), as co-application of the IL-1type 1 receptor antagonist protein (IL-1ra) blocks IL-1beta induced effects. 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. It has been suggested that the Type II receptor, either as the membrane-bound or as the soluble form, serves as a decoy for IL-1 and inhibits IL-1 action by blocking the binding of IL-1 to the signaling Type I receptor complex. Recombinant IL-1 soluble receptor Type I is a potent antagonist of IL-1 action.
Other Notes	Small volumes of IL1R1 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 IL1R1 purchase	MBS9141871 is a recombinant protein targeting IL1R1. Also known as Recombinant Human IL1R1 Protein. Host: HEK293 Cells.



SDS-Page of IL1R1 recombinant protein
Recombinant Human IL1R1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL1R1. It may not necessarily be applicable to this product.

NCBI GI #	569026723
NCBI GeneID	3554
NCBI Accession #	NP_001275635.1
UniProt Primary Accession #	P14778
UniProt Related Accession #	P14778
GenBank Nucleotide #	NP_001275635.1
NCBI Official Full Name	interleukin-1 receptor type 1 isoform 2
NCBI Official Synonym Full Names	interleukin 1 receptor type 1
NCBI Official Symbol	IL1R1
NCBI Official Synonym Symbols	P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha
UniProt Protein Name	Interleukin-1 receptor type 1
UniProt Synonym Protein Names	CD121 antigen-like family member A; Interleukin-1 receptor alpha; IL-1R-alpha; Interleukin-1 receptor type I; p80
Protein Family	Interleukin-1 receptor
UniProt Gene Name	IL1R1
UniProt Synonym Gene Names	IL1R; IL1RA; IL1RT1; IL-1R-1; IL-1RT-1; IL-1RT1; IL-1R-alpha; mIL-1R1; mIL-1RI; sIL-1R1; sIL-1RI
UniProt Entry Name	IL1R1_HUMAN
NCBI Protein Information	interleukin-1 receptor type 1
NCBI Summary for IL1R1	This gene encodes a cytokine receptor that belongs to the interleukin-1 receptor family. The encoded protein is a receptor for interleukin-1 alpha, interleukin-1 beta, and interleukin-1 receptor antagonist. It is an important mediator involved in many cytokine-induced immune and inflammatory responses. This gene is located in a cluster of related cytokine receptor genes on chromosome 2q12. [provided by RefSeq, Dec 2013]

UniProt Comments for IL1R1	IL-1RA: Receptor for IL1A, IL1B and IL1RN. After binding to interleukin-1 associates with the corecptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Belongs to the interleukin-1 receptor family. Protein type: EC 2.7.11.25; Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: 2q12 Cellular Component: cell surface; membrane; integral to plasma membrane; plasma membrane; extracellular region Molecular Function: interleukin-1, Type I, activating receptor activity; protein binding; signal transducer activity; transmembrane receptor activity; protease binding; platelet-derived growth factor receptor binding; interleukin-1 receptor activity Biological Process: cell surface receptor linked signal transduction; regulation of inflammatory response; immune response
Research Articles on IL1R1	**1.** GAG positioning on IL-1RI; A mechanism regulated by dual effect of glycosylation
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