Interleukin-1 Receptor Accessory Protein (IL1RAP) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Interleukin-1 receptor accessory protein (Il1rap), Recombinant Protein
Full Product Name	Recombinant Mouse Interleukin-1 receptor accessory protein (Il1rap), partial
Product Gene Name	Il1rap recombinant protein
Product Synonym Gene Name	Il1rap
Sequence	SERCDDWGLD TMRQIQVFED EPARIKCPLF EHFLKYNYST AHSSGLTLIW YWTRQDRDLE EPINFRLPEN RISKEKDVLW FRPTLLNDTG NYTCMLRNTT YCSKVAFPLE VVQKDSCFNS AMRFPVHKMY IEHGIHKITC PNVDGYFPSS VKPSVTWYKG CTEIVDFHNV LPEGMNLSFF IPLVSNNGNY TCVVTYPENG RLFHLTRTVT VKVVGSPKDA LPPQIYSPND RVVYEKEPGE ELVIPCKVYF SFIMDSHNEV WWTIDGKKPD DVTVDITINE SVSYSSTEDE TRTQILSIKK VTPEDLRRNY VCHARNTKGE AEQAAKVKQK VIPPRYTVEL ACGFGAT
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	78,640 Da
Sequence Positions	21-367
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q61730
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Il1rap recombinant protein	Interleukin 1 induces synthesis of acute phase and proinflammatory proteins during infection, tissue damage, or stress, by forming a complex at the cell membrane with an interleukin 1 receptor and an accessory protein. This gene encodes the interleukin 1 receptor accessory protein. The protein is a necessary part of the interleukin 1 receptor complex which initiates signalling events that result in the activation of interleukin 1-responsive genes. Alternative splicing of this gene results in two transcript variants encoding two different isoforms, one membrane-bound and one soluble. The ratio of soluble to membrane-bound forms increases during acute-phase induction or stress.
Other Notes	Small volumes of Il1rap 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 Il1rap purchase	MBS1311561 is a recombinant protein targeting Il1rap. Also known as Recombinant Mouse Interleukin-1 receptor accessory protein (Il1rap), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Il1rap. It may not necessarily be applicable to this product.

NCBI GI #	226693333
NCBI GeneID	16180
NCBI Accession #	NP_001152790.1
UniProt Primary Accession #	Q61730
UniProt Secondary Accession #	Q3UVZ1; Q8VCB9
UniProt Related Accession #	Q61730
GenBank Nucleotide #	NM_001159318.1
NCBI Official Full Name	interleukin-1 receptor accessory protein isoform d
NCBI Official Synonym Full Names	interleukin 1 receptor accessory protein
NCBI Official Symbol	Il1rap
NCBI Official Synonym Symbols	AI255955; AV239853; IL-1RAcP; 6430709H04Rik
UniProt Protein Name	Interleukin-1 receptor accessory protein
UniProt Synonym Protein Names	Interleukin-33 receptot beta chain
Protein Family	Interleukin-1 receptor accessory protein
UniProt Gene Name	Il1rap
UniProt Synonym Gene Names	IL-1 receptor accessory protein; IL-1RAcP
NCBI Protein Information	interleukin-1 receptor accessory protein
UniProt Comments for Il1rap	Coreceptor for IL1RL2 in the IL-36 signaling system. Coreceptor with IL1R1 in the IL-1 signaling system. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B 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. Recruits TOLLIP to the signaling complex. Does not bind to interleukin-1 alone; binding of IL1RN to IL1R1, prevents its association with IL1R1 to form a signaling complex. The cellular response is modulated through a non-signaling association with the membrane IL1R2 decoy receptor. Secreted forms (isoforms 2 and 3) associate with secreted ligand-bound IL1R2 and increase the affinity of secreted IL1R2 for IL1B; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors. Coreceptor for IL1RL1 in the IL-33 signaling system. Can bidirectionally induce pre- and postsynaptic differentiation of neurons by trans-synaptically binding to PTPRD (PubMed:25908590).
Research Articles on Il1rap	**1.** These results thus reveal the decoding mechanism of splice-insert signaling codes for synaptic differentiation induced by trans-synaptic adhesion between PTPdelta and IL1RAPL1/IL-1RAcP.
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