

Major royal jelly protein 1 Recombinant Protein | MRJP1 recombinant protein

Recombinant Apis mellifera Major royal jelly protein 1 (MRJP1)

CATALOG # AAA115226	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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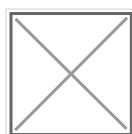
PRODUCT SYNONYMS

Major royal jelly protein 1; Recombinant Apis mellifera Major royal jelly protein 1 (MRJP1); 56-kDa protein 4; p56kP-4; Bee-milk protein; Royalactin; MRJP1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	20-432aa; Full Length of Mature Protein
Sequence	NILRGESLNK SLPILHEWK F DYDFGSDER RQDAILSGEY DYKNNYPSDI DQWHDKIFVT MLRYNGVPSS LNVISKKVG D GGPLLQYPD WSFAKYDDCS GIVSASKLAI DKCDRLWVLD SGLVNNTQPM CSPKLLTFDL TTSQLLKQVE IPHDVAVNAT TGKGR LSSLA VQSLDCNTNS DTMVYIADEK GEGLIVYHNS DDSFHRLTSN TFDYDPKFTK MTIDGESYTA QDGISGMALS PMTNNLYSP VASTSLYYVN TEQFRTSDYQ QNDIHYEGVQ NILDQSSAK VVSKSGVLFF GLVGDSALGC WNEHRTLERH NIRTVAQSDE TLQMIASMKI KEALPHVPIF DRYINREYIL VLSNMQKMV NNDNFNDDVN FRIMNANVNE LILNTRCENP DNDRTPFKIS IHL
Production Note	Special Offer: The Baculovirus, Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Baculovirus, Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Baculovirus, Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Baculovirus, Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MRJP1 recombinant protein	Major royal jelly protein 1: induces the differentiation of honeybee larvae into queens through an Egfr-mediated signaling pathway. Promotes body size increase by activating p70 S6 kinase, stimulates ovary development by augmenting the titer of vitellogenin (Vg) and juvenile hormone, and reduces developmental time by increasing the activity of mitogen-activated protein kinase and inducing the 20-hydroxyecdysone protein (20E). Most abundant protein found in the royal jelly which is the food of the queen honey bee larva. The royal jelly determines the development of the young larvae and is responsible for the high reproductive ability of the honeybee queen. Jellein-1: has antibacterial activity against the Gram-positive bacteria <i>S. aureus</i> 6535, <i>S. saprophyticus</i> and <i>B. subtilis</i> CCT2471, and the Gram-negative bacteria <i>E. coli</i> CCT1371, <i>E. cloacae</i> 23355, <i>K. pneumoniae</i> 13883 and <i>P. aeruginosa</i> 27853, and antifungal activity against <i>C. albicans</i> . Lack cytolytic activity and does not induce rat peritoneal mast cell degranulation. Jellein-2: has antibacterial activity against the Gram-positive bacteria <i>S. aureus</i> 6535, <i>S. saprophyticus</i> and <i>B. subtilis</i> CCT2471, and the Gram-negative bacteria <i>E. coli</i> CCT1371, <i>E. cloacae</i> 23355, <i>K. pneumoniae</i> 13883 and <i>P. aeruginosa</i> 27853, and antifungal activity against <i>C. albicans</i> . Lack cytolytic activity and does not induce rat peritoneal mast cell degranulation. Jellein-4: lacks antibacterial and antifungal activity. Lacks cytolytic activity and does not induce rat peritoneal mast cell degranulation.
References	Change in the mode of gene expression of the hypopharyngeal gland cells with an age-dependent role change of the worker honeybee <i>Apis mellifera</i> L.Ohashi K., Natori S., Kubo T.Eur. J. Biochem. 249:797-802(1997) A hypopharyngeal gland protein of the worker honeybee <i>Apis mellifera</i> L. enhances proliferation of primary-cultured rat hepatocytes and suppresses apoptosis in the absence of serum.Kamakura M., Sakaki T.Protein Expr. Purif. 45:307-314(2006) Royalactin induces queen differentiation in honeybees.Kamakura M.Nature 473:478-483(2011)

NCBI AND UNIPROT INFORMATION

NCBI GI #	58585098
NCBI GeneID	406090
NCBI Accession #	NP_001011579.1
NCBI GenBank Nucleotide #	NM_001011579.1
UniProt Accession #	O18330; Q548D6
Molecular Weight	48.9 kDa
NCBI Official Full Name	major royal jelly protein 1
NCBI Official Symbol	Mrjp1
NCBI Official Synonym Symbols	GB14888; p56kP-4
NCBI Protein Information	major royal jelly protein 1
UniProt Protein Name	Major royal jelly protein 1
UniProt Gene Name	MRJP1
UniProt Synonym Gene Names	MRJP-1; p56kP-4
UniProt Entry Name	MRJP1_APIME

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.