

Datasheet for ABIN5714288

**Major Royal Jelly Protein 1 (MRJP1) (AA 20-432) protein (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	Major Royal Jelly Protein 1 (MRJP1)
Protein Characteristics:	AA 20-432
Origin:	Apis mellifera
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	NILRGESLNK SLPILHEWKF FDYDFGSDER RQDAILSGEY DYKNNYPSDI DQWHDKIFVT MLRYNGVPSS LNVISKKVGD GGPLLQPYPD WSFAKYDDCS GIVSASKLAI DKCDRLWVLD SGLVNNNTQPM CSPKLLTFDL TTSQLLKQVE IPHDVAVNAT TGKGRLLSSLA VQSLDCNTNS DTMVYIADEK GEGLIVYHNS DDSFHRLTSN TFDYDPKFTK MTIDGESYTA QDGISGMALS PMTNNLYYSP VASTSLYYVN TEQFRTSDYQ QNDIHYEGVQ NILDQSSAK VVSKSGVLFF GLVGDSALGC WNEHRTLERH NIRTVAQSDE TLQMIASMKI KEALPHVPIF DRYINREYIL VLSNKMQKMV NDNFNDDVN FRIMNANVNE LILNTRCENP DNDRTPFKIS IHL
Purification:	SDS-PAGE
Purity:	> 90 %

## Target Details

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Target: Major Royal Jelly Protein 1 (MRJP1)

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Alternative Name: MRJP1 ([MRJP1 Products](#))

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Background: 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 *S.aureus* ATCC 6535, *S.saprophyticus* and *B.subtilis* CCT2471, and the Gram-negative bacteria *E.coli* CCT1371, *E.cloacae* ATCC 23355, *K.pneumoniae* ATCC 13883 and *P.aeruginosa* ATCC 27853, and antifungal activity against *C.albicans*. Lack cytolytic activity and does not induce rat peritoneal mast cell degranulation. Jellein-2: has antibacterial activity against the Gram-positive bacteria *S.aureus* ATCC 6535, *S.saprophyticus* and *B.subtilis* CCT2471, and the Gram-negative bacteria *E.coli* CCT1371, *E.cloacae* ATCC 23355, *K.pneumoniae* ATCC 13883 and *P.aeruginosa* ATCC 27853, and antifungal activity against *C.albicans*. 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.

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Molecular Weight: 48.8 kDa

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UniProt: [O18330](#)

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## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 0.1-2 mg/mL

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Buffer: 20 mM Tris-HCl based buffer, pH 8.0

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Storage: -80 °C, 4 °C, -20 °C

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Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing

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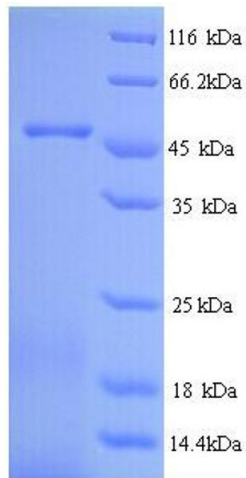
## Handling

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is not recommended. Store working aliquots at 4°C for up to one week.

## Images

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### SDS-PAGE

**Image 1.**