

Product datasheet for **TP324739**

MPEG1 (NM_001039396) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human macrophage expressed 1 (MPEG1), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC224739 protein sequence
Red=Cloning site **Green**=Tags(s)

MNNFRATILFWAAAAWAKSGKPSGEMDEVGQKCKNALKLPVLEVLPGGGWDNLRNVDMGRVMELTY
SNC
RTTEDGQYIIPDEIFTIPQKQSNLEMNSEILESWANYQSSTSYSINTELSLFSKVNGKFSTEFQRMKTLQ
VKDQAITTRVQVRNLVYTVKINPTLELSSGFRKELLDISDRLENNQTRMATYLAELLVLNYGTHVTTSDV
AGAALIQEDHLRASFLQDSQSSRSASAGLAFQNTVNFKEENYTSQNVLTksYLSNRTNSRVQSIGG
VPFYPGITLQAWQQGITNHLVAIDRSGPLPHFFINPNMLPDLPGLVKKVSKTVETAVKRYTFTNTYPGC
TDLNSPNFNFQANTDDGSGCEGKMTNFSFGGVYQECTQLSGNRDVLCCQKLEQKNPLTGDFSCPSGYS
P
H
LLSQIHEEGYNHLECHRKCTLLVFCKTVCEDVFQVAKAEFRAFVCVASSQVPENSGLLFGGLFSSK
SINP
MTNAQSCPAGYFPLRLFENLKVCVSQDYELGSRFAVPFGGFFSCTVGNPLVDP
PAISRDLGALSLLKKCPGG
FSQHPALISDGCQVSYSYCVKSGLFTGGSLPPARLPFTRPPLMSQAATNTVIVTNS
ENARSWIKDSQTHQW
RLGEPIELRRAMNVIHGDGGGLSGGAAAGVTGVTTILAVITLAIYGTRKFKKKAYQ
AIEERQSLVPGT
AATGDTTYQEQQSPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 78.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

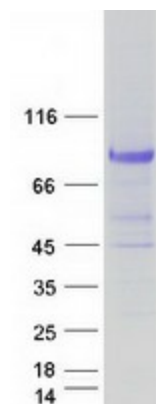
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001034485
Locus ID:	219972
UniProt ID:	Q2M385
RefSeq Size:	4527
Cytogenetics:	11q12.1
RefSeq ORF:	2148
Synonyms:	Mpg-1; MPG1; MPS1; P-2
Summary:	Plays a key role in the innate immune response following bacterial infection by inserting into the bacterial surface to form pores (By similarity). By breaching the surface of phagocytosed bacteria, allows antimicrobial effectors to enter the bacterial periplasmic space and degrade bacterial proteins such as superoxide dismutase sodC which contributes to bacterial virulence (By similarity). Shows antibacterial activity against a wide spectrum of Gram-positive, Gram-negative and acid-fast bacteria (PubMed:23753625, PubMed:26402460, PubMed:30609079). Reduces the viability of the intracytosolic pathogen <i>L.monocytogenes</i> by inhibiting acidification of the phagocytic vacuole of host cells which restricts bacterial translocation from the vacuole to the cytosol (By similarity). Required for the antibacterial activity of reactive oxygen species and nitric oxide (By similarity).[UniProtKB/Swiss-Prot Function]
Protein Families:	Transmembrane

Product images:



Coomassie blue staining of purified MPEG1 protein (Cat# TP324739). The protein was produced from HEK293T cells transfected with MPEG1 cDNA clone (Cat# [RC224739]) using MegaTran 2.0 (Cat# [TT210002]).