

Product datasheet for **TP324739**

MPEG1 (NM_001039396) Human Recombinant Protein

Product data:

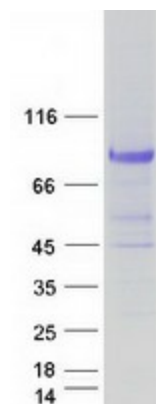
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human macrophage expressed 1 (MPEG1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC224739 protein sequence
Clone or AA	Red=Cloning site Green=Tags(s)
Sequence:	<p>MNNFRATILFWAAAAWAKSGKPSGEMDEVGVQCKNALKLPVLEVLPGGGWDNLRNVDMGRVMELTYSNC RTTEDGQYIIPDEIFTIPQKQSNLEMNSEILESWANYQSSTSYSINTELSLFSKVNKGKFSTEFQRMKTLQ VKDQAITTRVQVRNLVYTVKINPTLELSSGFRKELLDISDRLENNQTRMATYLAELLVLNYGTHVTTSDV AGAALIQUEDHLRASFLQDSQSSRSVAVTASAGLAFQNTVNFKEENYTSQNVLTKSYSNRTNSRVQSIGG VPFYPGITLQAWQQGITNHLVAIDRSLPLHFFINPNMLPDLPGPLVKKVSKTVETAVKRYTYFNTYPGC TDLNSPNFNFQANTDDGSCGKMTNFSFGGVYQECTQLSGNRDVLCCQKLEQKNPLTGDFSCPSGYSPVH LLSQIHEEGYNHLECHRKCTLLVFCKTVCEDVFQVAKAEFRAFWCVASSQVPENSGLLFGGLFSSKSINP MTNAQSCPAGYFPLRLFENLKVCSQDYELGSRFAVPFGGFFSCTVGNPLVDPAISRDLGALSLKKCPGG FSQHPALISDGCQVSYSYCVKSLFTGGSLPPARLPFTRPPLMSQAATNTVIVTNSENARSWIKDSQTHQW RLGEPIELRRAMNVIHGDGGGLSGGAAAGVTGVTTILAVITLAIYGTRKFKKKAYQAEERQSLVPGT AATGDTTYQEQGQSPA</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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.
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.



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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]).