

## Product datasheet for PH324739

### MPEG1 (NM\_001039396) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MPEG1 MS Standard C13 and N15-labeled recombinant protein (NP_001034485)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224739
Predicted MW:	78.6 kDa
Protein Sequence:	>RC224739 protein sequence Red=Cloning site Green=Tags(s)

MNNFRATILFWAAAAWAKSGKPSGEMDEVGVQKCKNALKLPVLEVLPGGGWDNLRNVDMGRVMELTYSNC  
RTTEDGQYIIPDEIFTIPQKQSNLEMNSEILES WANYQSSTSYSINTELSLFSKVNGKFSTEFQRMKTLQ  
VKDQAITTRVQRNLVYTVKINPTLELSSGFRKELLDISDRLENNQTRMATYLAELLVLNYGTHVTTSDV  
AGAALI QEDHLRASFLQDSQSSRS AVTASAGLAFQNTVNFKFEENYTSQNVLT KSYLSNRTNSRVQSIGG  
VPFYPGITLQAWQQGITNHLVAIDRSGLPLHFFINPNMLPDLPGPLVKKVSKTVETAVKRYTFTNTYPGC  
TDLNSPNFNFQANTDDGSCGKMTNFSFGGVYQECTQLSGNRDVLLCQKLEQKNPLTGDFSCPSGYSVPH  
LLSQIHEEGYNHLECHRKCTLLVFCCKTVCEDVFQAKAEFRAFWCVASSQVPENSGLLFGGLFSSKSINP  
MTNAQSCPAGYFPLRLFENLKVCVSDYELGSRFVAVPFGGFFSCTVGNPLVDPAISRD LGALSLKKCPGG  
FSQHPALISDGCQVSYCVKSGLFTGGSLPPARLPPFTRPPLMSQAATNTVIVTNSENARSWIKDSQTHQW  
RLGEPIELRRAMNVIHGDDGGLSGGAAAGVTGVTTILAVVITLAIYGRKFKKKAYQAI EERQSLVPGT  
AATGDTTYQEQQSPA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001034485</a>



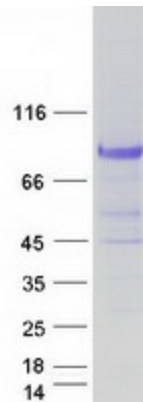
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RefSeq Size:	4527
RefSeq ORF:	2148
Synonyms:	Mpg-1; MPG1; MPS1; P-2
Locus ID:	219972
UniProt ID:	<a href="#">Q2M385</a>
Cytogenetics:	11q12.1

**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 *L.monocytogenes* 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]).