

Recombinant Human MPEG1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MPEG1-3320H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MPEG1 MS Standard C13 and N15-labeled recombinant protein (NP_001034485) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Plays a key role in the innate immune response following bacterial infection by inserting into the bacterial surface to form pores. 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. Shows antibacterial activity against a wide spectrum of Gram-positive, Gram-negative and acid-fast bacteria. 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. Required for the antibacterial activity of reactive oxygen species and nitric oxide.
Molecular Mass	78.6 kDa
AA Sequence	MNNFRATILFWAAA AWAKSGKPSGEMDEVG VQCKNALKLPVLEVLPGGGWDNLR NVD MGRVMELTYSNCR TTEDGQYIIPDEIFTIPQKQSNLEMNSEILES WANYQSSTS YSINTELSLFSKVNGKFSTEFQRMKTLQVKDQAITTRVQVRNLVYTVKINPTLELSSG

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FRKELDISDRLENNQTRMATYLAELLVLNYGTHVTTSDAGAALIQEDHLRASFLQD
 SQSSRSVAVTASAGLAFQNTVNFKFEENYTSQNVLTksyLSNRTNSRVQSIGGVPFY
 PGITLQAWQQGITNHLVAIDRSGPLPHFFINPNMLPDLPGPLVKKVSKTVETAVKRY
 TFNTYPGCTDLNSPNFNFQANTDDGSCGKMTNFSFGGVYQECTQLSGNRDVLLC
 QKLEQKNPLTGDFSCPSGYSPVHLLSQIHEEGYNHLECHRKCTLLVFCKTVCEDVF
 QVAKAEFRAFWCVASSQVPENSGLLFGGLFSSKSINPMTNAQSCPAGYFPLRLFEN
 LKVCVSQDYELGSRFAVPFGGFFSCTVGNPLVDPASRD LGALSLKKCPGGFSQHP
 ALISDGCQVSYCVKSGLFTGGS LPPARLPFTRPPLMSQAATNTVIVTNSENARSWI
 KDSQTHQWRLGEPIELRRAMNVIHGDGGGLSGGAAAGVTVGVTTILAVVITLAIYGT
 RKFKKKAYQAIEERQSLVPGTAATGDTTYQEQQSPATRTRPLEQKLISEEDLAAND
 ILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MPEG1 macrophage expressed 1 [Homo sapiens (human)]

Official Symbol MPEG1

Synonyms MPEG1; macrophage expressed 1; macrophage-expressed gene 1 protein; macrophage expressed gene 1; MPG1; macrophage gene 1 protein; MPS1; Mpg-1;

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MGC132657; MGC138435;

Gene ID 219972

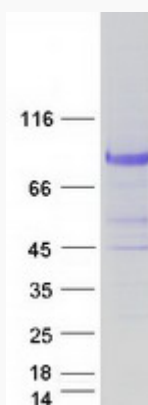
mRNA Refseq NM_001039396

Protein Refseq NP_001034485

MIM 610390

UniProt ID Q2M385

SDS-PAGE



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