

Mitogen-Activated Protein Kinase 1 Recombinant Protein | MAPK1 recombinant protein

Recombinant Human Mitogen-Activated Protein Kinase 1

CATALOG #
AAA38389

HOST
E Coli

PRODUCT SYNONYMS

Mitogen-Activated Protein Kinase 1; Recombinant Human Mitogen-Activated Protein Kinase 1; MAPK1 Human; Mitogen-Activated Protein Kinase 1 Human Recombinant; Mitogen-activated protein kinase 1; EC 2.7.11.24; Extracellular signal-regulated kinase 2; ERK-2; Mitogen-activated protein kinase 2; MAP kinase 2; MAPK 2; p42-MAPK; ERT1; ERK; p38; p40; p41; ERK2; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; MAPK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	MAPK1 is supplied containing 50mM Tris-HCL, 150mM NaCl, 2mM DTT, pH 8.0, 100 Units*/mg. Sterile Filtered clear solution.
Concentration	1mg/3.75 ml (varies by lot)
Sequence Length	360
Unit Defenition	1 U = 1 pmol/min transferred to myelin basic protein at 30 degree C.
Preparation and Storage	MAPK1 should be stored at 4 degree C if entire vial will be used within 2-4 weeks. For long term storage it is recommended to store at -20 degree C. Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MAPK1 recombinant protein	Description: MAPK1 Recombinant (extracellular signal-regulated kinase) a Mitogen-Activated Protein Kinase, is a highly active form produced by phosphorylation of the purified ERK2/MAPK1 in vitro with MEK1 is a non-glycosylated polypeptide having a molecular mass of 44.6 kDa. MAPK1 is purified by proprietary chromatographic techniques. Introduction: Mitogen-activated protein kinase 1 (MAPK1) is also known as "extracellular signal-regulated kinase 2" (ERK2). Two similar (85% sequence identity) protein kinases were originally called ERK1 and ERK2. They were found during a search for protein kinases that are rapidly phosphorylated after activation of cell surface tyrosine kinases such as the epidermal growth factor receptor. Phosphorylation of ERKs leads to the activation of their kinase activity. The molecular events linking cell surface receptors to activation of ERKs are complex. It was found that RasGTP-binding proteins are involved in the activation of ERKs. Another protein kinase, Raf-1, was shown to phosphorylate a "MAPK kinase", thus qualifying as a "MAPK kinase kinase". The MAPK kinase was named "MAPK/ERK kinase" (MEK). Receptor-linked tyrosine kinases, Ras, Raf, MEK and MAPK could be fitted into a signaling cascade linking an extracellular signal to MAPK activation. Transgenic gene knockout mice lacking MAPK1 have major defects in early development.
Product Categories/Family for MAPK1 recombinant protein	Protein Kinases; Enzymes; Mitogen-Activated Protein Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	66932916
NCBI GeneID	5594
NCBI Accession #	NP_002736.3

NCBI GenBank Nucleotide #	NM_002745.4
UniProt Accession #	P28482 ; A8CZ64
Molecular Weight	36,432 Da
NCBI Official Full Name	mitogen-activated protein kinase 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase 1
NCBI Official Symbol	MAPK1
NCBI Official Synonym Symbols	ERK; p38; p40; p41; ERK2; ERT1; ERK-2; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; p42-MAPK
NCBI Protein Information	mitogen-activated protein kinase 1; MAP kinase 1; MAP kinase 2; MAP kinase isoform p42; MAPK 2; extracellular signal-regulated kinase 2; mitogen-activated protein kinase 2; protein tyrosine kinase ERK2
UniProt Protein Name	Mitogen-activated protein kinase 1
UniProt Gene Name	MAPK1
UniProt Synonym Gene Names	ERK2; PRKM1; PRKM2; MAP kinase 1; MAPK 1; ERK-2; p42-MAPK; MAP kinase 2; MAPK 2
UniProt Entry Name	MK01_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mapk1-recombinant-protein-e-coli/38389>