

Recombinant Human Mitogen-Activated Protein Kinase 1

Cat. No. MAPK1-896H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAPK1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 380 amino acids (1-360 a.a.) and having a molecular mass of 43.5 kDa. The MAPK1 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	1-360 a.a.
Description	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.
Form	The MAPK1 solution contains 20 mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.
Amino acid sequence	MGSSHHHHHH SSGLVPRGSH MAAAAAAGAG PEMVRGQVFD VGPRYTNLSY IGEGAYGMVC SAYDNVNKVR VAIKKISPFE HQTTCQRTL R EIKILLRFRH ENIIGINDII RAPTIEQMKD VYIVQDLMET DLYKLLKTQH LSNDHICYFL YQILRGLKYI HSANVLHRDL KPSNLLLNTT CDLKICDFGL ARVADPDHDH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TGFLTEYVAT RWYRAPEIML NSKGYTKSID IWSVGCILAE MLSNRPIFPG
 KHYLDQLNHI LGILGSPSQE MGSSHHHHHH SSGLVPRGSH MAAAAAAGAG
 PEMVRGQVFD VGPRYTNLSY IGEGAYGMVC SAYDNVNKVR VAIKKISPFE
 HQTYCQRTL R EIKILLRFRH ENIIGINDII RAPTIEQMKD VYIVQDLMET
 DLYKLLKTQH LSNDHICYFL YQILRGLKYI HSANVLHRDL KPSNLLLNTT
 CDLKICDFGL ARVADPDHDH TGFLTEYVAT RWYRAPEIML NSKGYTKSID
 IWSVGCILAE MLSNRPIFPG KHYLDQLNHI LGILGSPSQE DLNCIINLKA
 RNYLLSLPHK NKVPWNRLFP NADSKALDLL DKMLTFNPHK RIEVEQALAH
 PYLEQYYDPS DEPIAEAPFK FDMELDDL PK EKLKELIFEE TARFQPGYRS.

Storage

MAPK1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.
 For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
 Please prevent freeze-thaw cycles.

GENE INFORMATION
Gene Name

MAPK1 mitogen-activated protein kinase 1 [Homo sapiens]

Official Symbol

MAPK1

Synonyms

MAPK1; mitogen-activated protein kinase 1; ERK; p38; p40; p41; ERK2; ERT1;
 MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; p42-MAPK; MAP kinase 2; Mitogen-
 activated protein kinase 2; Extracellular signal-regulated kinase 2;
 OTTHUMP00000174492; protein tyrosine kinase ERK2

Gene ID

5594

mRNA Refseq

NM_002745

Protein Refseq

NP_002736

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MIM	176948
UniProt ID	P28482
Chromosome Location	22q11.2; 22q11.21
Function	ATP binding; MAP kinase 2 activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; phosphotyrosine binding; protein binding; protein serine/threonine kinase activity; transferase activity
PDB rendering based on 1erk	