

# Recombinant Human Mitogen-Activated Protein Kinase 1

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

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Human
<b>ProteinLength</b>	1-360 a.a.
<b>Description</b>	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.
<b>Form</b>	The MAPK1 solution contains 20 mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Physical Appearance</b>	Sterile Filtered colorless solution.
<b>Amino acid sequence</b>	MGSSHHHHHH SSGLVPRGSH MAAAAAAGAG PEMVRGQVFD VGPRYTNL SY IGEGAYGMVC SAYDNVNKVR VAIKKISPFE HQTVCQRTL R EIKILLRFRH ENIIGINDII RAPTIEQMKD VYIVQDLMET DLYKLLKTQH LSNDHICYFL YQILRGLKYI HSANVLHRDL KPSNLLLNTT CDLKICDFGL ARVADPDHDH

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TGFLTEYVAT RWYRAPEIML NSKGYTKSID IWSVGCILAE MLSNRPIFPG  
 KHYLDQLNHI LGILGSPSQE MGSSHHHHHH SSGLVPRGSH MAAAAAAGAG  
 PEMVRGQVFD VGPRYTNSY IGEGAYG MVC SAYDNVNKVR VAIKKISPFE  
 HQTYCQRTL R EIKILLRFRH ENIIGINDII RAPTIEQMKD VYIVQDLMET  
 DLYKLLKTQH LSN DHICYFL YQILRGLKYI H SANVLHRDL 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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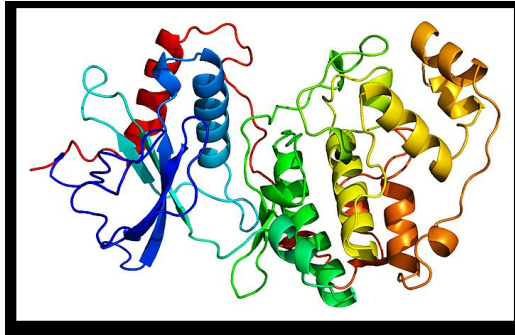
**MIM** 176948

**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**



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