

Product datasheet for **TP303506M**

ERK5 (MAPK7) (NM_002749) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitogen-activated protein kinase 7 (MAPK7), transcript variant 3, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203506 protein sequence Red =Cloning site Green =Tags(s)

MAEPLKEEDGEDGSAEPPGPVKAEPAAHTAASVAAKLNALLKARSFDVTFDVGDEYEIETIGNGAYGWVS
SARRRLTGQQVAIKKIPNAFDVVTNAKRTLRELKILKHFKHDNIIAIKDILRPTVPYGEFKSVYVLDLM
ESDLHQIHSQPLTLEHVRYFLYQLLRGLKYMHSQAQVIHRDLKPSNLLVNENCELKIGDFGMARGLCTS
PAEHQYFMTEYVATRWYRAPELMLSLHEYTQAIDLWSVGCIFGEMLARRQLFPGKKNYVHQLQLIMMVLGT
PSPAVIQAVGAERVYAIQSLPPRQVPVWETVYPGADRQALSLLGRMLRFEPSARISAAAALRHPFLAKY
HDPDDEPDCAPPFDFAFDREALTRERIKEAIVAEIEDFHARREGIRQQIRFQPSLQPVASEPGCPDVEMP
SPWAPSGDCAMESPPPAPPPCPGPAPDTIDLTLQPPPPVSEPAPPKKDGAISDNTKAALKAALLKSLRSR
LRDGPSAPLEAPEPRKPVTAQERQREREERKRRRRQERAKEREKRRQERERKERGAGASGGPSTDPLAGLV
LSDNDRSLLERWTRMARPAAPALTSVPAPAPAPTPTPTPVQPTSPPPGPVAQPTGPQPQSAGSTSGPVPQ
PACPPPGPAPHPTGPPGPIVPAPPQIATSTSLAAQSLVPPPGLPGSSTPGVLPYFPPGLPPPDPAGGAP
QSSMSESPDVNLVTQQLSKSQVEDPLPPVFSGTPKGSAGYGVGFLEEFLNQSFDMGVADGPQDGGQADS
ASLSASLLADWLEGHGMNPADIESLQREIQMDSPMLLADLPDLQDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

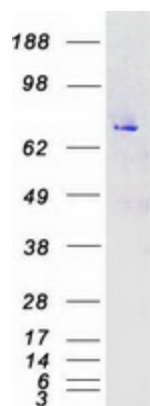
Tag:	C-Myc/DDK
Predicted MW:	88.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



[View online »](#)

Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002740
Locus ID:	5598
UniProt ID:	Q13164 , A0A024QZ20
RefSeq Size:	2972
Cytogenetics:	17p11.2
RefSeq ORF:	2448
Synonyms:	BMK1; ERK4; ERK5; PRKM7
Summary:	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracellular signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Gap junction, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway

Product images:



Coomassie blue staining of purified MAPK7 protein (Cat# [TP303506]). The protein was produced from HEK293T cells transfected with MAPK7 cDNA clone (Cat# [RC203506]) using MegaTran 2.0 (Cat# [TT210002]).