

Product datasheet for PH303506

ERK5 (MAPK7) (NM_002749) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAPK7 MS Standard C13 and N15-labeled recombinant protein (NP_002740)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203506
Predicted MW:	88.4 kDa
Protein Sequence:	>RC203506 protein sequence Red=Cloning site Green=Tags(s)

MAEPLKEEDGEDGSAEPPGPVKAEPHTAASVAANKLALLKARSDVTFDVGDEYEIETIGNGAYGVVS
SARRRLTGQQVAIKKIPNAFDVVTNAKRTLRELKILKHFHDNIIAIKDILRPTVPYGEFKSVYVVDLDM
ESDLHQI IHSSQPLTLEHVRYFLYQLLRGLKYMHTSAQVIHRDLKPSNLLVNENCLKIGDFGMARGLCTS
PAEHQYFMTEYVATRWYRAPELMLSLHEYTQAIDLWSVGCIFGEMLARRQLFPGKNYVHQLQLIMMVLGT
PSPAVIQAVGAERVRAIQSLPPRQVPVWETVYPGADRQALSLLGRMLRFEPSARISAAAALRHPFLAKY
HDPDDEPDCAPPDFDAFDREALTRERIKEAIVAEIEDFHARREGIRQQIRFQPSLQPVASEPGCPDVEMP
SPWAPSGDCAMESPPAPPPCPGPAPDTIDLTLQPPPPVSEPAPPKKGAI SDNTKAALKAALLKSLRSR
LRDGPSAPLEAPEPRKPVTAQERQREEREKRRRRQERAKERERKERKERGAGASGGPSTDPLAGLV
LSDNDRSLLERWTRMARPAAPALTSVPAPAPAPTPTPTPVQPTSPPPGPVAQPTGPQPQSAGSTSGPVPQ
PACPPPGPAPHPTGPPGPIPVAPPQIATSTSLAAQSLVPPGPGSSTPGVLPYFPPGLPPPDAAGGAP
QSSMSESPDVNLVTQQLSKSQVEDPLPPVFSGTPKSGAGYGVGFDLEEFLNQSFDMGVADGPDGQADS
ASLSASLLADWLEGHGMNPADIESLQREIQMDSMPLLADLPDLQDP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002740



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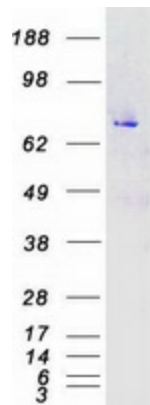
RefSeq Size:	2972
RefSeq ORF:	2448
Synonyms:	BMK1; ERK4; ERK5; PRKM7
Locus ID:	5598
UniProt ID:	Q13164 , A0A024QZ20
Cytogenetics:	17p11.2

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]).