

Recombinant Human MAPK7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAPK7-846H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAPK7 MS Standard C13 and N15-labeled recombinant protein (NP_002740) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	88.4 kDa
AA Sequence	MAEPLKEEDGEDGSAEPPGPVKAEPHTAASVAAKNLALLKARSFDVTFDVGDEYEI IETIGNGAYGVVSSARRRLTGQQVAIKKIPNAFDVVTNAKRTLRELKILKHFKHDNIIAI

 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

KDILRPTVPYGEFKSVYVVLDLMESDLHQIIHSSQPLTLEHVRYFLYQLLRGLKYMHS
 AQVIHRDLKPSNLLVNENCELKIGDFGMARGLCTSPAEHQYFMTEYVATRWRAPPE
 LMLSLHEYTQAIDLWSVGCIFGEMLARRQLFPGKNYVHQLQLIMMVLGTPSPAVIQA
 VGAERVRAIYQSLPPRQPVWETVYPGADRQALSLLGRMLRFEPSARISAAAALRH
 PFLAKYHDPDDEPDCAPPDFDAFDREALTRERIKEAIVAEIEDFHARREGIRQQIRFQ
 PSLQPVASEPGCPDVEMPSPWAPSGDCAMESPPPPAPPPCPGPAPDTIDLTLQPPP
 PVSEPAPPKKDGAISDNTKAALKAALLKSLRSRLRDGPSAPLEAPEPRKPVTAQERQ
 REREKRRRRQERAKEREKRRQERERKERGAGASGGPSTDPLAGLVLSNDNRSL
 ERWTRMARPAAPALTSVPAPAPAPTPTPTPVQPTSPPPGPVAQPTGPQPQSAGST
 SGPVPQPACPPPGPAPHPTGPPGPIPVAPPQIATSTSLAAQSLVPPPGLPGSSTP
 GVLPHYFPPGLPPPDAGGAPQSSMSESPDNLVTQQLSKSQVEDPLPPVFSGTPKG
 SGAGYGVGFDLEEFNLQSFDMGVADGPQDQGADSASLSASLLADWLEGHGMNPA
 DIESLQREIQMDSPMLLADLPDLQDPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MAPK7 mitogen-activated protein kinase 7 [Homo sapiens (human)]

Official Symbol MAPK7

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Synonyms	MAPK7; mitogen-activated protein kinase 7; PRKM7; BMK1; BMK1 kinase; ERK5; extracellular signal regulated kinase 5; BMK-1; ERK-5; MAPK 7; MAP kinase 7; big MAP kinase 1; extracellular signal-regulated kinase 5; extracellular-signal-regulated kinase 5; ERK4;
Gene ID	5598
mRNA Refseq	NM_002749
Protein Refseq	NP_002740
MIM	602521
UniProt ID	Q13164
SDS-PAGE	