

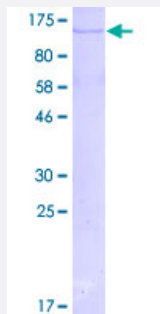
Full-Length

MAPK7 (Human) Recombinant Protein (P01)

Catalog # H00005598-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAPK7 full-length ORF (AAH07404.1, 1 a.a. - 677 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MESDLHQIIHSSQPLTLEHVRYFLYQLLRGLKYMHSAQVIHRDLKPSNLLVNENCELKIGDFGMARG
LCTSPAEHQYFMTEYVATRWYRAPELMLSLHEYTQADLWSVGCIFGEMLARRQLFPGKNYVHQL
QLIMMVLGTPSPAVIQAVGAERVRAIYQSLPPRQVPWPWETVYPGADRQALSLLGRMLRFEPSARIS
AAAALRHPFLAKYHDPDDEPDCAPPFDFAFDREALTRERIKEANVAEIEDFHARREGIRQQIRFQP
SLQPVASEPGCPDVEMPSPWAPSGDCAMESPPPAAPPCPGPAPDTIDTLQPPPPVSEPAAP
KKDGAISDNTKAALKAALLKSLRSRLRDGPSAPLEAPEPRKPVTAQERQREEREKRRRRQERAK
EREKRRQERERKERGAGASGGPSTDPLAGLVLSNDNRSLLERWTRMARPAAPALTSVPAPAPA
PTPTPTPVQPTSPPPGPVAQPTGPQPSAGSTSGPVPQPACPPPGPAPHPTGPPGPIVPAPP
QIATSTSLAAQSLVPPPGLPGSSTPGVLPYFPPGLPPPDAGGAPQSSMSSEPDVNLVTQQLSK
SQVEDPLPPVFSGTPKSGGAGYGVGFDLEEFNQSFDMGVADGPQDGGQADSASLSASLLADW
LEGHGMNPADIESLQREIQMDSPMLLADLPDLQDP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

100.21

Interspecies Antigen Sequence

Mouse (91)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MAPK7

Entrez GeneID	5598
GeneBank Accession#	BC007404
Protein Accession#	AAH07404.1
Gene Name	MAPK7
Gene Alias	BMK1, ERK4, ERK5, PRKM7
Gene Description	mitogen-activated protein kinase 7
Omim ID	602521
Gene Ontology	Hyperlink

Gene 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]

Other Designations

BMK1 kinase|OTTHUMP00000065906|big MAP kinase 1|extracellular-signal-regulated kinase 5

Pathway

- [Gap junction](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)