

Product datasheet for PH316704

MNK2 (MKNK2) (NM_199054) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MKNK2 MS Standard C13 and N15-labeled recombinant protein (NP_951009)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216704
Predicted MW:	51.7 kDa
Protein Sequence:	>RC216704 representing NM_199054 Red=Cloning site Green=Tags(s)

MVQKKPAELQGFHRSFKGQNPFLAFSLDQPDHGDSDFGLQCSARPDMPASQPIDIPDAKKRGKKKKRGR
ATDSFSGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIIEKQPGHIRSRVFREVMELYQCQGHR
NVLELEIEFFEEEDRFYLVFEKMRGGSILSHIHKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPEN
ILCEHPNQSPVKICDFDLGSGIKLNGDCSPISTPELLTPCGSAEYMAPEVVEAFSEEASIIDKRCDLWS
LGVILYILLSGYPPFVGRGSDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAAKDLISKLLV
RDAKQRLSAAQVLQHPWVQGCAPENTLPTPMVLQRNSCAKDLTSFAAEAIAAMNRQLAQHDEDLAEEEEAG
QGQPVLVSRCLQLSPPSQSKLAQRQRASLSSAPVVLVGDHA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:	<u>NP_951009</u>
RefSeq Size:	3795
RefSeq ORF:	1395
Synonyms:	GPRK7; MNK2



[View online »](#)

Locus ID: 2872

UniProt ID: [Q9HBH9](#), [B3KS07](#)

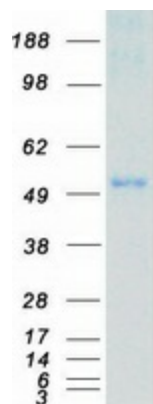
Cytogenetics: 19p13.3

Summary: This gene encodes a member of the calcium/calmodulin-dependent protein kinases (CAMK) Ser/Thr protein kinase family, which belongs to the protein kinase superfamily. This protein contains conserved DLG (asp-leu-gly) and ENIL (glu-asn-ile-leu) motifs, and an N-terminal polybasic region which binds importin A and the translation factor scaffold protein eukaryotic initiation factor 4G (eIF4G). This protein is one of the downstream kinases activated by mitogen-activated protein (MAP) kinases. It phosphorylates the eukaryotic initiation factor 4E (eIF4E), thus playing important roles in the initiation of mRNA translation, oncogenic transformation and malignant cell proliferation. In addition to eIF4E, this protein also interacts with von Hippel-Lindau tumor suppressor (VHL), ring-box 1 (Rbx1) and Cullin2 (Cul2), which are all components of the CBC(VHL) ubiquitin ligase E3 complex. Multiple alternatively spliced transcript variants have been found, but the full-length nature and biological activity of only two variants are determined. These two variants encode distinct isoforms which differ in activity and regulation, and in subcellular localization. [provided by RefSeq, Aug 2011]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Insulin signaling pathway, MAPK signaling pathway

Product images:



Coomassie blue staining of purified MNK2 protein (Cat# [TP316704]). The protein was produced from HEK293T cells transfected with MNK2 cDNA clone (Cat# [RC216704]) using MegaTran 2.0 (Cat# [TT210002]).