

## Product datasheet for PH317425

### p38 (MAPK14) (NM\_001315) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MAPK14 MS Standard C13 and N15-labeled recombinant protein (NP_001306)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217425
Predicted MW:	41.3 kDa
Protein Sequence:	>RC217425 representing NM_001315 Red=Cloning site Green=Tags(s)  MSQERPTFYRQELNKTIVEVPERYQNLSPVSGAYGSVCAAFDTKTGLRVAVKKLSRPFQSIHAKRTYR ELRLLKHKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKQCQLTDDHVQFLIYQILRGLKY IHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVG CIMAELLTGRTLFPGTDHINQLQQIMRLTGTPPAYLINRMPSEARNYIQSLTQMPKMNFAVFIGANPL AVDLLEKMLVLDSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLEYDEVISFVP PPLDQEEMES  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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_001306</a>
RefSeq Size:	3757
RefSeq ORF:	1080
Synonyms:	CSBP; CSBP1; CSBP2; CSPB1; EXIP; Mxi2; p38; p38ALPHA; PRKM14; PRKM15; RK; SAPK2A
Locus ID:	1432



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UniProt ID: [Q16539](#), [L7RSM2](#)

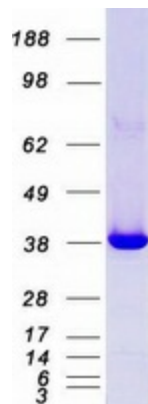
Cytogenetics: 6p21.31

**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 activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEK2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway

### Product images:



Coomassie blue staining of purified MAPK14 protein (Cat# [TP317425]). The protein was produced from HEK293T cells transfected with MAPK14 cDNA clone (Cat# [RC217425]) using MegaTran 2.0 (Cat# [TT210002]).