

## Product datasheet for TP322925L

### JNK1 (MAPK8) (NM\_139049) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitogen-activated protein kinase 8 (MAPK8), transcript variant JNK1-a2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222925 representing NM_139049 Red=Cloning site Green=Tags(s)

MSRSKRDNNFYSVEIGDSTFTVLKRYQNLKPIGSGAQGIVCAAYDAILERNVAIKKLSRPFQNTAKRA  
YRELVLMKCVNHKNIIGLLNVFTPKSLEEFQDVYVIMELMDANLCQVIQMELDHERMSYLLYQMLCGIK  
HLHSAGIIHRDLKPSNIVKSDCTLKILDFGLARTAGTSFMMTPYVTRYRAPEVILGMGYKENVDLWS  
VGCIMGEMVCHKILFPGRDYIDQWNKVIEQLGTPCEPFMKKLQPTVRTYVENRPKYAGYSFEKLPDVLV  
PADSEHNKLGASQARDLLSKMLVIDASKRISVDEALQHPYINWYDPSEAEAPPKIPDKQLDEREHTIE  
EWKELIYKEVMDLEERTKNGVIRGQPSPLGAAVINGSQHPSSSSSVNDVSSMSTDPTLASDTSLSLEAAA  
GPLGCCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	48.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_620637](#)

Locus ID: 5599

UniProt ID: [P45983](#)

RefSeq Size: 1412

Cytogenetics: 10q11.22

RefSeq ORF: 1281

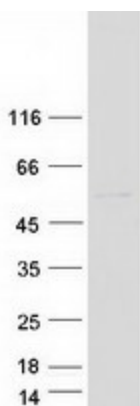
Synonyms: JNK; JNK-46; JNK1; JNK1A2; JNK21B1/2; PRKM8; SAPK1; SAPK1c

**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 cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Apr 2016]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

**Protein Pathways:** Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, Wnt signaling pathway

## Product images:



Coomassie blue staining of purified MAPK8 protein (Cat# [TP322925]). The protein was produced from HEK293T cells transfected with MAPK8 cDNA clone (Cat# [RC222925]) using MegaTran 2.0 (Cat# [TT210002]).