

## Product datasheet for **AR51940PU-S**

### MAPK8 / JNK1 (1-427, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	MAPK8 / JNK1 (1-427, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMSRSKRD NNFYSVEIGD STFTVLKRYQ NLKPIGSGAQ GIVCAAYDAI LERNVAIKKL SRPFQNTQTHA KRAYRELVLM KCVNHKNIIG LLNVFTPQKS LEEFQDVYIV MELMDANLCQ VIQMELDHER MSYLLYQMLC GIKHLHSAGI IHRDLKPSNI VVKS DCTLKI LDFGLARTAG TSFMMTPYV TRYRAPEVI LGMGYKENVD IWSVGCIMGE MIKGGVLFPG TDHIDQWNKV IEQLGTPCPE FMKKLQPTVR TYVENRPKYA GYSFEKLFPD VLF PADSEHN KLKASQARDL LSKMLVIDAS KRISVDEALQ HPYINVWYDP SEAEAPPPKI PDKQLDEREH TIEEWKELIY KEVMDLEERT KNGVIRGQPS PLGAAVINGS QHPSSSSSVN DVSSMSTDPT LASD TDSSLE AAAGPLGCCR
Tag:	His-tag
Predicted MW:	50.5 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate Buffer Saline (pH 7.4) containing 20% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human MAPK8, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001265476</a>
Locus ID:	5599
UniProt ID:	<a href="#">P45983</a>



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**Cytogenetics:** 10q11.22

**Synonyms:** Mitogen-activated protein kinase 8, c-Jun N-terminal kinase 1, JNK-46, JNK-1, PRKM8

**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:

