

Recombinant Human MAPK8 Protein, His-tagged

Cat. No. MAPK8-2420H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAPK8 Protein (Tyr26-Ile321) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Tyr26-Ile321
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.6 kDa

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	Accurate Molecular Mass: 38 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 80%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MAPK8 mitogen-activated protein kinase 8 [Homo sapiens (human)]
Official Symbol	MAPK8
Synonyms	MAPK8; mitogen-activated protein kinase 8; JNK; JNK1; PRKM8; SAPK1; JNK-46; JNK1A2; SAPK1c; JNK21B1/2; mitogen-activated protein kinase 8 JUN N-terminal kinase

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MAP kinase 8
 c-Jun N-terminal kinase 1
 stress-activated protein kinase 1
 stress-activated protein kinase 1c
 EC 2.7.11.24

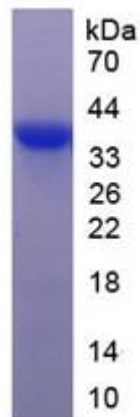
Gene ID [5599](#)

mRNA Refseq [NM_139049](#)

Protein Refseq [NP_620637](#)

MIM [601158](#)

UniProt ID [P45983](#)



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