Recombinant Human Mitogen-activated Protein Kinase 10, GST-His

Cat. No. MAPK10-691H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human JNK3 is fused at the N-terminus to a GST-His 6-thrombin cleavage site tag and expressed in*S. frugiperda insect cells*using a baculovirus expression system.
Species	Human
Source	S.frugiperda
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.
Form	Liquid.
Formulation	In 100 mM NaCl, 50 mM Tris-HCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol, pH 8.0.
Molar Mass	82161 Da.

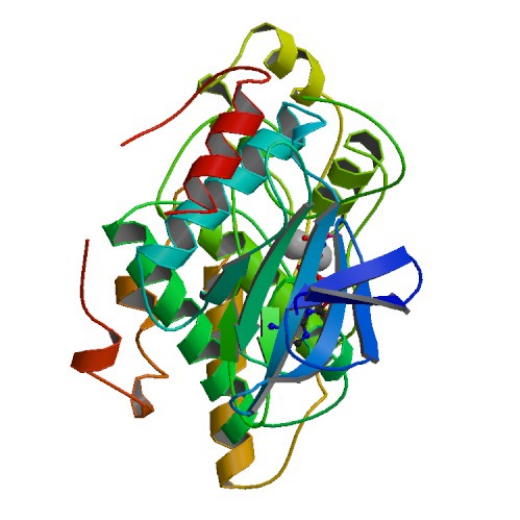
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Specific Activity	≥0.1 U/mg protein.
Unit Definition	One unit is defined as the amount of enzyme required to transfer 1 nmol phosphate to Rb-CTF per min at 30 °C using variable concentrations of ATP (0.1-0.312 μM).
Purity	≥90% by SDS-PAGE.
Storage	≤ -70oC. Ship: Dry Ice Only.

GENE INFORMATION

Gene Name	MAPK10 mitogen-activated protein kinase 10 [Homo sapiens]
Synonyms	MAPK10; mitogen-activated protein kinase 10; JNK3; JNK3A; PRKM10; p493F12; FLJ12099; FLJ33785; MGC50974; p54bSAPK; MAP kinase; OTTHUMP00000161180; OTTHUMP00000161183; JNK3 alpha protein kinase; c-Jun N-terminal kinase 3; stress activated protein kinase beta; EC 2.7.11.24; MAP kinase p49 3F12; OTTHUMP00000161182; c-Jun kinase 3
Gene ID	5602
mRNA Refseq	NM_002753
Protein Refseq	NP_002744
MIM	602897
UniProt ID	P53779
Chromosome Location	4q22.1-q23

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Pathway	Adipocytokine signaling pathway; Colorectal cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal adhesion; GnRH signaling pathway; Insulin signaling pathway; MAPK signaling pathway; NOD-like receptor signaling pathway; Neurotrophin 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
Function	ATP binding; JUN kinase activity; MAP kinase activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity
PDB rendering based on 1jnk.	

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