

Product datasheet

Recombinant human JNK3 protein ab196055

[2 Images](#)

Description

Product name	Recombinant human JNK3 protein
Biological activity	<p>Specific activity 22 pmol/min/μg.</p> <p>Enzyme reaction was performed in 50 μl kinase reaction buffer (40 mM Tris pH 7.4, 10 mM MgCl₂, 0.1 mg/ml BSA, 0.5 mM DTT) containing 50 μM ATP, 0.2 mg/ml ATF2 and 2-16 ng/μl MAPK10 for 30 minutes at 30°C. The amount of ATP transferred was assayed using ATP quantification reagents.</p>
Purity	<p>>= 55 % SDS-PAGE.</p> <p>Affinity purified.</p>
Expression system	Baculovirus infected Sf9 cells
Accession	<u>P53779-2</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>SLHFLYYCS EPTLDVKIAF CQGFDKQVDV SYIAKHYNMS KSKVDNQFYS VEVGDSTFTV LKRYQNLKPI GSGAQQGVCA AYDAVLDRNV AIKKLSRPFQ NQTHAKRAYR ELVLMKCVNH KNIISLLNVF TPQKTLEEFQ DVYLVME LMD ANLCQVIQME LDHERMSYLL YQMLCGIKHL HSAGIIHRDL KPSNVVKSD CTLKILDFGL ARTAGTSFMM TPYVVTRYR APEVILGMGY KENVDIWSVG CIMGEMVRHK ILFPGRDYID QWNKVIEQLG TPCPEFMKKL QPTVRNYVEN RPKYAGLTFP KLFPDSLFP DSEHNKLKAS QARDLLSKML VIDPAKRISV DDALQHPYIN VWYDPAEVEA PPPQYDKQL DEREHTIEEW KELYKEVMN SEEKTKNGVV KGQPSPSAQV QQ</p>
Predicted molecular weight	75 kDa including tags
Amino acids	2 to 422
Tags	GST tag N-Terminus
Additional sequence information	This product is for the mature full length protein from aa 2 to 422 of Human MAPK10 Isoform Alpha 1. The initial Met not included. NM_002753.

Specifications

Our **Abpromise guarantee** covers the use of **ab196055** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
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Form	Liquid
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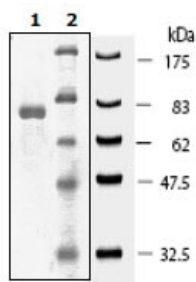
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.4% Tris HCl, 0.58% Sodium chloride, 0.05% Tween, 20% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

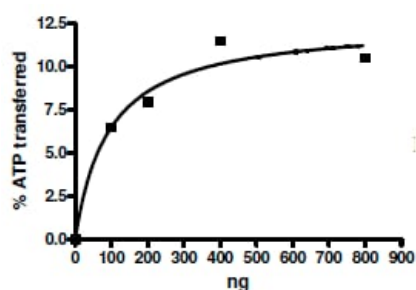
Function	Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as c-Jun and ATF2 and thus regulates AP-1 transcriptional activity. Required for stress-induced neuronal apoptosis and the pathogenesis of glutamate excitotoxicity.
Tissue specificity	Specific to a subset of neurons in the nervous system. Present in the hippocampus and areas, cerebellum, striatum, brain stem, and weakly in the spinal cord. Very weak expression in testis and kidney.
Involvement in disease	Defects in MAPK10 are a cause of epileptic encephalopathy Lennox-Gastaut type (EELG) [MIM:606369]. Epileptic encephalopathies of the Lennox-Gastaut group are childhood epileptic disorders characterized by severe psychomotor delay and seizures. Note=A chromosomal aberration involving MAPK10 has been found in a single patient. Translocation t(Y;4)(q11.2;q21) which causes MAPK10 truncation.
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
Domain	The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.
Post-translational modifications	Dually phosphorylated on Thr-221 and Tyr-223, which activates the enzyme. Weakly autophosphorylated on threonine and tyrosine residues in vitro.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant human JNK3 protein
(ab196055)

SDS-PAGE analysis of 3 µg ab196055 (lane 1) on 10% SDS-PAGE gel and stained with Coomassie blue. Protein marker -lane 2



Functional Studies - Recombinant human JNK3 protein (ab196055)

Specific activity of ab196055

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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