

Recombinant Human JNK2/SAPK1

Cat. No. JNK2-46H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SAPK1/JNK2 (stress-activated protein kinase/c-jun kinase) is a non-glycosylated polypeptide having a molecular mass of 49.5 kDa. SAPK1/JNK2 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	JUN N-terminal Kinase 2 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 targets specific transcription factors, and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV radiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this gene's mouse counterpart suggest a key role in T-cell differentiation. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.
Purity	Greater than 95% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered clear solution.

 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

Formulation	JNK2/SAPK1 (1.3 mg/ml) is supplied in 50mM Tris-HCl, 100mM NaCl, 1mM DTT, 50% glycerol, pH 8.5
Unit Definition	No protease activity detectable, specific activity > 300 U*/mg (*1 U = 1 pmol/min transferred to c-jun (1-169) at 30°C). Autophosphorylation < 5%.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Synonyms	Mitogen-activated protein kinase 9; EC 2.7.11.24; Stress-activated protein kinase JNK2; c-Jun N-terminal kinase 2; JNK2; JNK2A; JNK2B; PRKM9; JNK-55; JNK2BETA; p54aSAPK; JNK2ALPHA; MAPK9; JUN N-terminal Kinase 2 alpha 1; JNK2a-1; mitogen-activated protein kinase 9; SAPK; p54a; Jun kinase; MAP kinase 9; c-Jun kinase 2; mitogen-activated protein kinase 9 isoform JNK2 alpha2.
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