

## JNK2/SAPK1 Human

**Description:** SAPK1/JNK2 Human Recombinant (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.

**Catalog #:** PKPS-223

For research use only.

**Synonyms:** Mitogen-activated protein kinase 9, EC 2.7.11.24, Stress-activated protein kinase JNK2, c-Jun N-terminal kinase 2, JNK-55, JNK2, JNK2A, JNK2B, PRKM9, JNK2BETA, p54aSAPK, JNK2ALPHA, MAPK9, SAPK1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

JNK2/SAPK1 (1.3 mg/ml) is supplied in 50mM Tris-HCl, 100mM NaCl, 1mM DTT, 50% glycerol, pH 8.

**Introduction:**

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.

**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.

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