

Recombinant c-Jun Fusion Protein

CATALOG #: 7001-100

AMOUNT: 100 µg (2 mg/ml)

LOT #: _____

BACKGROUND:

c-Jun is a component of the transcription factor AP-1 that binds and activates transcription at TRE/AP-1 elements. The transcriptional activity of c-Jun is regulated by phosphorylation at Ser63 and Ser73. Extracellular signals including growth factors, transforming oncoproteins, and UV irradiation stimulate phosphorylation of c-Jun at Ser63/73 and activate c-Jun dependent transcription. The MAP kinase homologue, JNK, binds to the N-terminal region of c-Jun and phosphorylates c-Jun at Ser63/73. The activity of JNK is stimulated by the same signals that activates c-Jun.

PREPARATION:

c-Jun fusion protein was expressed in *E. coli*. It is expressed as a recombinant protein fusion of human c-Jun residue 1-79 and glutathione S-transferase. The protein was then purified by affinity chromatography.

PURITY: ≥ 90%

FORM:

Liquid. 2 mg/ml in storage buffer containing 20 mM Tris-HCl (pH 7.5), 50 mM NaCl, 2 mM EDTA, 1 mM DTT, and 50% glycerol.

MOL. WEIGHT: 37 kDa

STORAGE: -20°C

ACTIVITY:

C-Jun fusion protein at a concentration of 2 µg/20 µl reaction was phosphorylated in an *in vitro* kinase assay with 200 µM ATP. After 30 minutes incubation at 30°C, phosphorylation was detected by Western blot with phospho-specific c-Jun antibodies.

REFERENCES:

Binetruy, *et al.* (1991) *Nature* 351:122-127.
Smeal, T. *et al.* (1991) *Nature* 354, 494-496.

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