Recombinant Human jun oncogene, His-tagged

Cat. No. JUN-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	C-JUN amino acids 1-81 produced in*E.coli*, is a non-glycosylated, polypeptide chain having a molecular mass of 52 kDa. C-JUN is a maltose binding protein (MBP) fusion protein with an amino-terminal polyhistidine tag and purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	1-81 a.a.
Description	C-JUN is a gene which, in combination with c-Fos, forms the AP-1 early response transcription factor. It is activated by the JNK pathway. This gene is the putative transforming gene of avian sarcoma virus 17. It encodes a protein which is highly similar to the viral protein, and which interacts directly with specific target DNA sequences to regulate gene expression.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95% as determined by SDS-PAGE.
Formulation	C-JUN is supplied as lyophilized powder containing no additives.
Solubility	It is recommended to centrifuge the vial prior to opening in order to bring the contents to the bottom. The reconstitution of the lyophilized c-Jun is recommended in 40mM

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	Tris, pH 7.5, to a concentration of 0.2-1.0 mg/ml.
Biological Activity	C-Jun is phosphorylatable in vitro, using either recombinant active JNK1 or JNK2, or with JNK immunoprecipitated from stimulated cells. This phosphorylation can be monitored by Western blot analysis using an antibody directed to c-Jun [pS73], in conjunction with chemiluminescence detection methods. Optimization of the cell stimulation protocol, cell lysis procedure, and reaction conditions may be required for each specific application. Please note: Kinase activity may vary depending on the substrate and reaction conditions.
Storage	Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	JUN jun oncogene [Homo sapiens]
Synonyms	JUN; jun oncogene; AP1; AP-1; c-Jun; activator protein 1; enhancer-binding protein AP1; Jun activation domain binding protein; v-jun sarcoma virus 17 oncogene homolog; v-jun avian sarcoma virus 17 oncogene homolog; v-jun sarcoma virus 17 oncogene homolog (avian)
Gene ID	3725
mRNA Refseq	NM_002228
Protein Refseq	NP_002219
MIM	165160
UniProt ID	P05412

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Chromosome Location	1p32-p31
Pathway	B cell receptor signaling pathway; Colorectal cancer; Epithelial cell signaling in Helicobacter pylori infection; ErbB signaling pathway; Focal adhesion; GnRH signaling pathway; MAPK signaling pathway; Neurotrophin signaling pathway; Pathways in cancer; Renal cell carcinoma; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Wnt signaling pathway
Function	R-SMAD binding; RNA polymerase II transcription factor activity; Rho GTPase activator activity; double-stranded DNA binding; promoter binding; protein dimerization activity; transcription factor activity; transcription factor binding
PDB rendering based on 1a02.	

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