

Active Recombinant Human Jun Oncogene

Cat. No. JUN-1027H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Insect Cells

ProteinLength 1-331 aa

Description

C-Jun is the name of a gene and protein which, in combination with c-Fos, forms the AP-1 early response transcription factor. It was first identified as the Fos-binding protein p39 and only later rediscovered as the product of the c-jun gene. It is activated through double phosphorylation by the JNK pathway but has also a phosphorylation-independent function. C-Jun knockout is lethal, but transgenic animals with a mutated c-Jun that cannot be phosphorylated (termed c-JunAA) can survive. The growth- promoting activity of c-jun is mediated by repression of tumor suppressors, as well as up-regulation of positive cell cycle regulators. Mostly, c-jun is a positive regulator of cell proliferation, whereas JunB has the converse effect. Recombinant c-jun was expressed in a *Baculovirus* system and purified by an affinity column in combination with FPLC chromatography. The purified recombinant protein contains no detectable protease, DNase, and RNase activity.

Form

Liquid. Supplied in 20mM Tris-HCl pH8.0, 20% glycerol, 100mM KCl, 0.2mM EDTA and 1mM DTT.

Activity

100ng are sufficient for a protein-protein interaction assay.

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Application	C-fos has been applied in protein-DNA and protein-protein interaction assays.
Purity	>90% by SDS-PAGE.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months. Store at -80°C. Avoid 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
Gene ID	3725
mRNA Refseq	NM_002228
Protein Refseq	NP_002219
MIM	165160
UniProt ID	P05412
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

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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; Signaling in Immune system

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

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