

Recombinant Human Jun, His-tagged, 27.3 kDa (261 aa)

Cat. No. JUN-792H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human c-Jun protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-241 aa
Description	The human protooncogene c-Jun is the putative transforming gene of avian sarcoma virus 17, and it encodes a protein which is highly homologous to the viral protein. c-Jun and c-Fos form a complex in the nucleus. AP1 is a collective term referring to these dimeric transcription factors composed of Jun, Fos or ATF subunits that bind to a common DNA site, the AP1 binding site. AP1 proteins, mostly the Jun group, regulate the expression and function of cell cycle regulators such as Cyclin D1, p53, p21, p19 and p16. Fos and Jun proto oncogene expression is induced transiently by a variety of extracellular stimuli associated with mitogenesis, differentiation processes or depolarization of neurons.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 2mM DTT, 0.1M NaCl.
Molecular Weight	27.3 kDa (261 aa) confirmed by MALDI-TOF.
Purity	> 90 % by SDS - PAGE.

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Concentration	0.25 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MTAKMETTFY DDALNASFLP SESGPYGYSN PKIL KQSMTL NLADPVGSLK PHLRAKNSDL LTSPDVGLLK LASPELERLI IQSSNGHITT TPTPTQFLCP KNVTDQEGF AEGFVRALAE LHSQNTLPSV TSAAQPVNGA GMVAPAVASV AGGSGSGGFS ASLHSEPPVY ANLSNFNPGA LSSGGGAPSY GAAGLAFPAQ PQQQQQPPHH LPQQMPVQHP RLQALKEEPQ TVPEMPGETP P.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	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

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

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MIM	165160
UniProt ID	P05412
Chromosome Location	1p32-p31
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
PDBrendering based on 1a02.	

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