

Recombinant Human Jun Oncogene, GST-tagged

Cat. No. JUN-646H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Jun Oncogene was expressed in E. coli. It was fused at the N-terminus to a GST tag. MW=68 KDa.
Species	Human
Source	E.coli
Description	c-Jun is an important proto-oncogene and transactivating factor that is a component of the AP-1 and ATF-2 transcription factors. c-Jun is acutely regulated by a wide variety of cellular signals via modulation of its phosphorylation state, which can both inhibit and activate the proto-oncogene. Phosphorylation by GSK-3 at a region proximal to the highly basic DNA binding domain (Thr239/Ser243/Ser249) prevents DNA association with c-Jun homodimers, but not with c-Jun-c-Fos heterodimers. Phosphorylation catalyzed by JNK/SAPK at Ser63 and Ser73, in a region proximal to the transactivation domain, activates the c-Jun/AP-1 and c-Jun/ATF2 transcriptional activator complexes to induce a number of genes. The MAP kinases ERK1 and ERK2 also phosphorylate c-Jun at Thr91/Thr93/Thr95. The preparations are suitable for studies on the kinetics, enzymology and regulation of the phosphorylation of the important proto-oncogene. The purified preparations are effective as substrate for JNK/SAPK, MAPK, GSK-3 and CK-2 among other protein kinases.
Purity	> 90% by SDS-PAGE.
Supplied	Supplied 5 mg in 50 ml of 50 mM Tris-HCl pH 7.0 buffer containing 14 mM b-

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mercaptoethanol.

Disclaimer

GloboZymes products are for basic science research purposes only. They are not intended for human drug.

Storage

Maintain preparations in aliquots at -70°C. Avoid repeated thawing.

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

**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

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.

