

Product Information

c-JUN (1-79), GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5176**
Storage Temperature -70°C

Synonym: AP1

Product Description

c-Jun is a proto-oncogene that forms a complex with c-Fos, which regulates transcription from promoters containing AP-1 activation elements.¹ c-Jun has specific DNA binding activity and following *in vitro* translation, c-Jun binds as a homodimer to the AP-1 DNA site. The transactivating function of c-Jun is acutely regulated by a wide variety of cellular signals via modulation of phosphorylation of two serines (Ser⁶³ and Ser⁷³). Jun N-terminal domain kinases (JNKs), are responsible for mediating Ser^{63/73} phosphorylation on c-Jun in response to a variety of cellular stimuli including TNF- α , heat stress, and UV light.²

Recombinant human c-JUN (1-79) was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_002228. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~35 kDa

Purity: 50–95% (SDS-PAGE, see Figure 1)

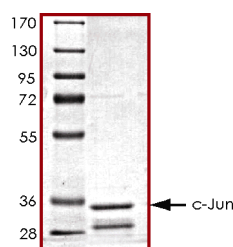
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
50–95% (densitometry)



References

1. Halazonetis, T.D. et al., c-Jun dimerizes with itself and with c-Fos, forming complexes of different DNA binding affinities. *Cell*, **55(5)**, 917-24 (1988).
2. Dai, T. et al., Stress-activated protein kinases bind directly to the delta domain of c-Jun in resting cells: implications for repression of c-Jun function. *Oncogene*, **10(5)**, 849-55 (1995).

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