

Product Information

FOS, GST-tagged, human recombinant, expressed in *Sf9* insect cells

Catalog Number **SRP5181**
Storage Temperature -70°C

Synonyms: c-FOS

Product Description

FOS is a member of the FOS gene family that consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. The FOS gene encodes a leucine zipper protein that can dimerize with proteins of the JUN family, thereby, forming the transcription factor complex AP-1. FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation.¹ In some cases, expression of the FOS gene has also been associated with apoptotic cell death. FOS overexpression leads to decreased phosphorylation and dimerization of STAT1, which in turn down-regulates p21 gene expression.² This regulatory pathway may enhance the proliferation of lymphocytes in rheumatoid arthritis patients.

Recombinant full-length human FOS was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST tag. The gene accession number is NM_005252. 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: ~78 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

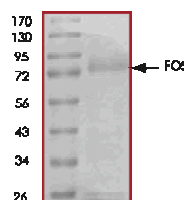
Precautions and Disclaimer

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
70–95% (densitometry)



References

1. Saez, E. et al., c-fos is required for malignant progression of skin tumors. *Cell*, **82**, 721-732 (1995).
2. Hikasa, M. et al., p21(waf1/cip1) is down-regulated in conjunction with up-regulation of c-Fos in the lymphocytes of rheumatoid arthritis patients. *Biochem. Biophys. Res. Commun.*, **304**, 143-147 (2003).

DKF, MAM 10/11-1