

Recombinant Human FOS, His-tagged

Cat. No. FOS-1026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Insect Cells

ProteinLength 1-380 aa

Description

C-Fos is a cellular proto-oncogene belonging to the immediate early gene family of transcription factors. c-Fos has a leucine-zipper DNA binding domain, and a transactivation domain at the C-terminus. Transcription of c-Fos is upregulated in response to many extracellular signals, e.g. growth factors. Additionally, phosphorylation by MAPK, PKA, PKC or cdc2 alters the activity and stability of c-Fos. Members of the Fos family dimerise with C-Jun to form the AP-1 transcription factor, which upregulates transcription of a diverse range of genes involved in everything from proliferation and differentiation to defense against invasion and cell damage. The combinatorial diversity of AP-1 proteins and other interacting factors appears to influence how specific cell types respond to a stimulus. His tagged recombinant c-fos was expressed in a Baculovirus system and purified by an affinity column in combination with FPLC chromatography.

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	FOS FBJ murine osteosarcoma viral oncogene homolog [Homo sapiens]
Synonyms	FOS; FBJ murine osteosarcoma viral oncogene homolog; AP-1; C-FOS; G0S7; c-fos; Proto-oncogene protein c-fos; Cellular oncogene fos; G0/G1 switch regulatory protein 7; FBJ murine osteosarcoma viral (v-fos) oncogene homolog (oncogene FOS); activator protein 1; cellular oncogene c-fos; v-fos FBJ murine osteosarcoma viral oncogene homolog
Gene ID	2353
mRNA Refseq	NM_005252
Protein Refseq	NP_005243
MIM	164810
UniProt ID	P01100
Chromosome Location	14q24.3

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Pathway B cell receptor signaling pathway; Colorectal cancer; MAPK signaling pathway; Pathways in cancer; T cell receptor signaling pathway; Toll-like receptor signaling pathway

Function R-SMAD binding; double-stranded DNA binding; promoter binding; protein heterodimerization activity; specific RNA polymerase II transcription factor activity; transcription factor activity

PDB rendering based on 1a02.

