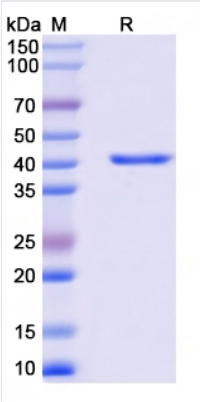
FOS Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	FOS, Recombinant Protein
Full Product Name	Recombinant Human FOS Protein, C-His
Product Gene Name	FOS recombinant protein
Product Synonym Names	Cellular oncogene fos; G0S7; FOS; G0/G1 switch regulatory protein 7; Proto-oncogene c-Fos
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 degree C for twelve months from the date of receipt.
Molecular Weight	40,695 Da
Sequence Positions	Met1-Leu380
Chromosome Location	Chromosome: 14; NC_000014.8 (75745481..75748937). Location: 14q24.3
OMIM	164810
3D Structure	ModBase 3D Structure for P01100
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for FOS recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for FOS recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for FOS recombinant protein	MBS1577728 is a recombinant protein targeting FOS. Also known as Recombinant Human FOS Protein, C-His. Host: E coli.
Other Notes	Small volumes of FOS recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of FOS recombinant protein
SDS PAGE for Recombinant Human FOS protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOS. It may not necessarily be applicable to this product.

NCBI GI #	4885241
NCBI GeneID	2353
NCBI Accession #	NP_005243.1
UniProt Primary Accession #	P01100
UniProt Secondary Accession #	P18849
UniProt Related Accession #	P01100
GenBank Nucleotide #	NM_005252.3
NCBI Official Full Name	proto-oncogene c-Fos
NCBI Official Synonym Full Names	FBJ murine osteosarcoma viral oncogene homolog
NCBI Official Symbol	FOS
NCBI Official Synonym Symbols	p55; AP-1; C-FOS
UniProt Protein Name	Proto-oncogene c-Fos
UniProt Synonym Protein Names	Cellular oncogene fos; G0/G1 switch regulatory protein 7
Protein Family	Proto-oncogene
UniProt Gene Name	FOS
UniProt Synonym Gene Names	G0S7
UniProt Entry Name	FOS_HUMAN
NCBI Protein Information	proto-oncogene c-Fos; activator protein 1; cellular oncogene c-fos; G0/G1 switch regulatory protein 7; FBJ murine osteosarcoma viral (v-fos) oncogene homolog (oncogene FOS)
NCBI Summary for FOS	The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of the FOS gene has also been associated with apoptotic cell death. [provided by RefSeq, Jul 2008]

UniProt Comments for FOS	Fos: a proto-oncogenic transcription factor of the bZIP family. Dimerizes with proteins of the JUN family, thereby forming the transcription factor complex AP-1. FOS proteins function as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of FOS has also been associated with apoptotic cell death. Expression increases upon a variety of stimuli, including growth factors, cytokines, neurotransmitters, polypeptide hormones, stress and cell injury. Protein type: Motility/polarity/chemotaxis; DNA-binding; Transcription factor; Oncoprotein Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: nucleoplasm; transcription factor complex; neuron projection; membrane; endoplasmic reticulum; nucleus; cytosol Molecular Function: protein binding; double-stranded DNA binding; transcription factor activity; transcription factor binding Biological Process: transcription from RNA polymerase II promoter; response to gravity; response to cAMP; positive regulation of osteoclast differentiation; response to toxin; positive regulation of transcription, DNA-dependent; stress-activated MAPK cascade; response to lipopolysaccharide; toll-like receptor 3 signaling pathway; female pregnancy; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; regulation of transcription factor activity; transforming growth factor beta receptor signaling pathway; conditioned taste aversion; DNA methylation; inflammatory response; toll-like receptor 4 signaling pathway; aging; response to corticosterone stimulus; response to drug; response to light stimulus; nervous system development; MyD88-independent toll-like receptor signaling pathway; sleep; cellular response to hormone stimulus; toll-like receptor 2 signaling pathway; regulation of transcription from RNA polymerase II promoter; MyD88-dependent toll-like receptor signaling pathway; response to mechanical stimulus; response to cytokine stimulus; cellular response to extracellular stimulus; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; response to cold; response to progesterone stimulus
Research Articles on FOS	**1.** PAX2 protein induces expression of cyclin D1 through activating AP-1 protein and promotes proliferation of colon cancer cells.
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