

Datasheet for ABIN7562858  
**FOSB Protein (AA 1-338) (His tag)**



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## Overview

Quantity:	1 mg
Target:	FOSB
Protein Characteristics:	AA 1-338
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOSB protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Fosb Protein expressed in mammalien cells.
Sequence:	MFQAFPGDYD SGSRCSSSPS AESQYLSSVD SFGSPPTAAA SQECAGLGEM PGSFVPTVTA ITTSQDLQWL VQPTLISSMA QSQGQPLASQ PPAVDPYDMP GTSYSTPGLS AYSTGGASGS GGPSTSTTTS GPVSARPARA RPRRPREETL TPEEEEEKRRV RRERNKLA AA KCRNRRRELT DRLQAETDQL EEEKAELESE IAELQKEKER LEFVLVAHKP GCKIPYEEGP GPGPLAEVRD LPGSTSAKED GFGWLLPPPP PPPLPFQSSR DAPPNLTASL FTHSEVQVLG DPFVWSPSY TSSFVLTCPE VSAFAGAQR TSGSEQPSDPL NSPSSLAL <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

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Target:	FOSB
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Alternative Name:	Fosb ( <a href="#">FOSB Products</a> )
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Background:	<p>Protein FosB (FBJ osteosarcoma oncogene B) (Transcription factor AP-1 subunit FosB),FUNCTION: Heterodimerizes with proteins of the JUN family to form an AP-1 transcription factor complex, thereby enhancing their DNA binding activity to gene promoters containing an AP-1 consensus sequence 5'-TGA[GC]TCA-3' and enhancing their transcriptional activity (PubMed:2498083, PubMed:1900040). As part of the AP-1 complex, facilitates enhancer selection together with cell-type-specific transcription factors by collaboratively binding to nucleosomal enhancers and recruiting the SWI/SNF (BAF) chromatin remodeling complex to establish accessible chromatin (PubMed:29272704). Together with JUN, plays a role in activation-induced cell death of T cells by binding to the AP-1 promoter site of FASLG/CD95L, and inducing its transcription in response to activation of the TCR/CD3 signaling pathway (By similarity). Exhibits transactivation activity in vitro (PubMed:17241283). Involved in the display of nurturing behavior towards newborns (PubMed:8706134). May play a role in neurogenesis in the hippocampus and in learning and memory-related tasks by regulating the expression of various genes involved in neurogenesis, depression and epilepsy (PubMed:23303048,</p>
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## Target Details

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PubMed:30902680). Implicated in behavioral responses related to morphine reward and spatial memory (PubMed:9294222, PubMed:18407360). {ECO:0000250|UniProtKB:P53539, ECO:0000269|PubMed:17241283, ECO:0000269|PubMed:18407360, ECO:0000269|PubMed:1900040, ECO:0000269|PubMed:23303048, ECO:0000269|PubMed:2498083, ECO:0000269|PubMed:29272704, ECO:0000269|PubMed:30902680, ECO:0000269|PubMed:8706134, ECO:0000269|PubMed:9294222}., FUNCTION: [Isoform 2]: Exhibits lower transactivation activity than isoform 1 in vitro (PubMed:17241283). The heterodimer with JUN does not display any transcriptional activity, and may thereby act as a transcriptional inhibitor (PubMed:1900040). May be involved in the regulation of neurogenesis in the hippocampus (PubMed:23303048). May play a role in synaptic modifications in nucleus accumbens medium spiny neurons and thereby play a role in adaptive and pathological reward-dependent learning, including maladaptive responses involved in drug addiction (PubMed:23319622). Seems to be more stably expressed with a half-life of ~9.5 hours in cell culture as compared to 1.5 hours half-life of isoform 1 (PubMed:18407360). {ECO:0000269|PubMed:17241283, ECO:0000269|PubMed:18407360, ECO:0000269|PubMed:1900040, ECO:0000269|PubMed:23303048, ECO:0000269|PubMed:23319622}.

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Molecular Weight: 36.0 kDa

UniProt: [P13346](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

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## Handling

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Expiry Date: 12 months