

Datasheet for ABIN7562893
TCF3 Protein (AA 1-651) (His tag)



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Overview

Quantity:	1 mg
Target:	TCF3
Protein Characteristics:	AA 1-651
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCF3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Tcf3 Protein expressed in mammalien cells.
Sequence:	MMNQSQRMAP VGSDKELSDL LDFSMMFPLP VANGKSRPAS LGGTQFAGSG LEDRPSSGSW GSSDQNSSSF DPSRTYSEGA HFSDSHSSLP PSTFLGAGLG GKGSEFNAYA TFGRDTSVGT LSQAGFLPGE LSLSSPGPLS PSGIKSSSQY YPSFSPNPRR RAADGGLDTQ PKKVRKVPPG LPSSVYPPSS GDSYSRDAAA YPSAKTPSSA YPSPFYVADG SLHPSAELWS TPSQVGFQPM LGDGSSPLPL APGSSSVGSG TFGGLQQQDR MGYQLHGSEV NGSLPAVSSF SAAPGTYSGT SGHTPPVSGA AAESLLGTRG TTASSSGDAL GKALASIYSP DHSSNNFSPS PSTPVGSPQG LPGTSQWPRA GAPSALSPNY DAGLHGLSKM EDRLDEAIHV LRSHAVGTAS DLHGLLPGHG ALTSFTGPM SLGGRHAGLV GGSHPPEGLT SGASLLHNHA SLPSQPSSLP DLSQRPPDSY SGLGRAGTTA GASEIKREEK EDEEIASVAD AEEDKKDLKV PRTRTSPDED EDDLPPPEQK AEREKERRVA NNARERLRVR DINEAFKELG RMCQLHLSSE KPQTKLLILH QAVAVILSLE QQVRERNLNP KAACLKRREE EKVSGVVGDP QLALSAHPG LGEAHNPAGH L 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.

Characteristics:

Key Benefits:

- 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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

TCF3

Alternative Name:

Tcf3 ([TCF3 Products](#))

Background:

Transcription factor E2-alpha (Immunoglobulin enhancer-binding factor E12/E47) (Transcription factor 3) (TCF-3) (Transcription factor A1),FUNCTION: Transcriptional regulator involved in the initiation of neuronal differentiation and mesenchymal to epithelial transition (PubMed:15226298, PubMed:18214987). Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation (PubMed:18214987). Together with TCF15, required for the mesenchymal to epithelial transition (PubMed:11309385, PubMed:15226298). Dimers bind DNA on E-box motifs: 5'-CANNTG-3' (PubMed:15226298, PubMed:18214987, PubMed:30426815). Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer (By similarity). Binds to IEB1 and IEB2, which are short DNA

Target Details

sequences in the insulin gene transcription control region (PubMed:2181401).
{ECO:0000250|UniProtKB:P15923, ECO:0000269|PubMed:11309385,
ECO:0000269|PubMed:15226298, ECO:0000269|PubMed:18214987,
ECO:0000269|PubMed:2181401}., FUNCTION: [Isoform E47]: Facilitates ATOH7 binding to DNA
at the consensus sequence 5'-CAGGTG-3', and positively regulates transcriptional activity.
{ECO:0000250|UniProtKB:P15923}.

Molecular Weight: 67.7 kDa

UniProt: [P15806](#)

Pathways: [WNT Signaling](#), [Stem Cell Maintenance](#), [Regulation of Muscle Cell Differentiation](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

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.

Restrictions: For Research Use only

Handling

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.

Expiry Date: 12 months