

Datasheet for ABIN7556850
TCF7 Protein (AA 1-419) (His tag)



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Overview

Quantity:	1 mg
Target:	TCF7
Protein Characteristics:	AA 1-419
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCF7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Tcf7 Protein expressed in mammalien cells.
Sequence:	<p>MPQLDSGGGG AGRGDDLGAPE DELLAFAQDEG EEQDDKNRDS PVGPERDLAE LKSSLVNESE GAAAGAGVPG PGVRVHGEAE GAPEALGREH TSQRLFPDKL PESLEDGLKA PECTSGMYKE TVYSAFNLLM PYPPASGAGQ HPQPQPPLHN KPGQPPHGVP QLSPLYEHFS SPHPTPAPAD ISQKQGVHRP LQTPDLSGFY SLTSGSMGQL PHTVSWPSPP LYPLSPSCGY RQHFPAPTAA PGAPYPRFTH PSLMLGSGVP GHAAIHPHA IVPSSGKQEL QPYDRNLKTQ AEPKAEKEAK KPVIKKPLNA FMLYMKEMRA KVIAECTLKE SAAINQILGR RWHALSREEQ AKYYELARKE RQLHMQLYPG WSARDNYGKK KRRSREKHQE STTGKRNAF GTYPEKAAAP APFLPMTVL</p> <p>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.</p>
Characteristics:	Key Benefits:

Product Details

- 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
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Grade:	custom-made
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Target Details

Target:	TCF7
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Alternative Name:	Tcf7 (TCF7 Products)
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Background:	<p>Transcription factor 7 (TCF-7) (T-cell-specific transcription factor 1) (T-cell factor 1),FUNCTION: Transcriptional activator involved in T-cell lymphocyte differentiation. Necessary for the survival of CD4(+) CD8(+) immature thymocytes. Isoforms lacking the N-terminal CTNNB1 binding domain cannot fulfill this role. Binds to the T-lymphocyte-specific enhancer element (5'-WWCAAAG-3') found in the promoter of the CD3E gene. Represses expression of the T-cell receptor gamma gene in alpha-beta T-cell lineages (PubMed:17218525). Inhibits the developmental program of IL17A effector gamma-delta T-cell subsets via regulating the transcription of T-cell lineage effector proteins (PubMed:23562159, PubMed:30413363). Required for the development of natural killer receptor-positive lymphoid tissue inducer T-cells (PubMed:23562159). TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7 and CTNNB1 (By similarity). May also act as feedback transcriptional repressor of CTNNB1 and TCF7L2 target genes. {ECO:0000250, ECO:0000269 PubMed:11477404, ECO:0000269 PubMed:17218525, ECO:0000269 PubMed:23562159, ECO:0000269 PubMed:30413363}.</p>
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Target Details

Molecular Weight: 45.5 kDa

UniProt: [Q00417](#)

Pathways: [WNT Signaling](#)

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