

Datasheet for ABIN7544796

TWIST1 Protein (AA 1-202) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	TWIST1
Protein Characteristics:	AA 1-202
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TWIST1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat TWIST1 Protein expressed in mammalien cells.
Sequence:	MMQDVSSSPV SPADDSLSNS EEEPDRQQPP SGKRGGRKRR SSRRSAGGGA GPGGAAGGGV GGGDEPGSPA QGKRGKKSAG CGGGGGAGGG GGSSSGGGSP QSYEELQTR VMANVRERQR TQSLNEAFAA LRKIPTLPS DKLSKIQLK LAARYIDFLY QVLQSDELDS KMASCSYVAH ERLSYAFSVW RMEGAWMSA SH 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: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalien cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.

Product Details

- 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:	TWIST1
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Alternative Name:	TWIST1 (TWIST1 Products)
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Background:	<p>Twist-related protein 1 (Class A basic helix-loop-helix protein 38) (bHLHa38) (H-twist),FUNCTION: Acts as a transcriptional regulator. Inhibits myogenesis by sequestering E proteins, inhibiting trans-activation by MEF2, and inhibiting DNA-binding by MYOD1 through physical interaction. This interaction probably involves the basic domains of both proteins. Also represses expression of pro-inflammatory cytokines such as TNFA and IL1B. Regulates cranial suture patterning and fusion. Activates transcription as a heterodimer with E proteins. Regulates gene expression differentially, depending on dimer composition. Homodimers induce expression of FGFR2 and POSTN while heterodimers repress FGFR2 and POSTN expression and induce THBS1 expression. Heterodimerization is also required for osteoblast differentiation. Represses the activity of the circadian transcriptional activator: NPAS2-BMAL1 heterodimer (By similarity). {ECO:0000250 UniProtKB:P26687, ECO:0000269 PubMed:12553906, ECO:0000269 PubMed:25981568}.</p>
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Molecular Weight:	21.0 kDa
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UniProt:	Q15672
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Pathways:	p53 Signaling , Proton Transport , Tube Formation , Negative Regulation of Transporter Activity
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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
