

Datasheet for ABIN7555882
TXNIP Protein (AA 1-391) (His tag)



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Overview

Quantity:	1 mg
Target:	TXNIP
Protein Characteristics:	AA 1-391
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TXNIP protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TXNIP Protein expressed in mammalian cells.
Sequence:	MVMFKKIKSF EVFNDPEKV YGSGEKVAGR VIVEVCEVTR VKAVRILACG VAKVLWMQGS QQCKQTSEYL RYEDTLLED QPTGENEMVI MRPGNKYEYK FGFELPQGGL GTSFKGKYGC VDYWVKAFLD RPSQPTQETK KNFEVDLVD VNTPDLMAPV SAKKEKKVSC MFIPDGRVSV SARIDRKGFC EGDEISIHAD FENTCSRIVV PKAAIVARHT YLANGQTKVL TQKLSSVRGN HIISGTCASW RGKSLRVQKI RPSILGCNIL RVEYSLLIYV SVPGSKKVIL DLPLVIGSRS GLSSRTSSMA SRTSSEMSWV DLNIPDTPEA PPCYMDVIPE DHRLESPTTP LLDDMDGSQD SPIFMYAPEF KFMPPPTYTE VDPCILNNNV Q 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

TXNIP

Alternative Name:

TXNIP ([TXNIP Products](#))

Background:

Thioredoxin-interacting protein (Thioredoxin-binding protein 2) (Vitamin D3 up-regulated protein 1),FUNCTION: May act as an oxidative stress mediator by inhibiting thioredoxin activity or by limiting its bioavailability. Interacts with COPS5 and restores COPS5-induced suppression of CDKN1B stability, blocking the COPS5-mediated translocation of CDKN1B from the nucleus to the cytoplasm. Functions as a transcriptional repressor, possibly by acting as a bridge molecule between transcription factors and corepressor complexes, and over-expression will induce G0/G1 cell cycle arrest. Required for the maturation of natural killer cells. Acts as a suppressor of tumor cell growth. Inhibits the proteasomal degradation of DDIT4, and thereby contributes to the inhibition of the mammalian target of rapamycin complex 1 (mTORC1).
{ECO:0000269|PubMed:12821938, ECO:0000269|PubMed:17603038, ECO:0000269|PubMed:18541147, ECO:0000269|PubMed:21460850}.

Molecular Weight:

43.7 kDa

UniProt:

[Q9H3M7](#)

Target Details

Pathways: [Protein targeting to Nucleus](#), [Platelet-derived growth Factor Receptor Signaling](#), [Inflammasome](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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