Thioredoxin-Interacting Protein (TXNIP) Pig Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thioredoxin-interacting protein (TXNIP), Recombinant Protein
Full Product Name	Recombinant Pig Thioredoxin-interacting protein (TXNIP)
Product Gene Name	TXNIP recombinant protein
Product Synonym Gene Name	TXNIP
Sequence	MVMFKKIKSF EVVFNDPEKV YGCGEKVAGR VIVEVCEVTR IKAVRILACG VAKVLWMQGS QQCKQTLDYL RYEDTLLLDD HPTGENEMVI MRPGNKYEYK FGFELPQGPL GTSFKGKYGC VDYWVKAFLD RPSQPTQETK KHFEVMDLVD VNTPDLMAPV SAKKEKKVSC MFIPDGRVSV SARIDRKGFC EGDEINIHAD FENTCSRIVV PKAAIVARHT YLANGQTKVL TQKLSSVRGN HIISGTCASW RGKSLRVQKI RPSILGCNIL RVEYFLLIYV SVPGSKKVIL DLPLVIGSRS GLSSRTSSMA SRTSSEMSWV DLNIPDTPEA PPCYMDIIPE DHRLESPTTP LLDDTDGSQD SPIFMYAPEF KFMPPPTYSE VDPCILNNNV Q
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	43,811 Da
Sequence Positions	1-391, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q2HY40
Species	Sus scrofa (Pig)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TXNIP recombinant protein	MBS1432938 is a recombinant protein targeting TXNIP. Also known as Recombinant Pig Thioredoxin-interacting protein (TXNIP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TXNIP recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TXNIP. It may not necessarily be applicable to this product.

NCBI GI #	113205906
NCBI GeneID	733688
NCBI Accession #	NP_001038079.1
UniProt Primary Accession #	Q2HY40

UniProt Secondary Accession #	Q09W51; A5J2A7
UniProt Related Accession #	Q2HY40
GenBank Nucleotide #	NM_001044614.2
NCBI Official Full Name	thioredoxin-interacting protein
NCBI Official Symbol	TXNIP
UniProt Protein Name	Thioredoxin-interacting protein
Protein Family	Thioredoxin-interacting protein
UniProt Gene Name	TXNIP
NCBI Protein Information	thioredoxin-interacting protein
UniProt Comments for TXNIP	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. Inhibits the proteasomal degradation of DDIT4, and thereby contributes to the inhibition of the mammalian target of rapamycin complex 1 (mTORC1) (). 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 ().
Research Articles on TXNIP	**1.** The molecular characterization of porcine TXNIP gene, is described.
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