

Recombinant Mouse TXNIP Protein (1-397 aa), His-tagged

Cat. No. TXNIP-1689M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse TXNIP Protein (1-397 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	Mouse
Source	Yeast
ProteinLength	1-397 aa
Description	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.
Form	Tris-based buffer,50% glycerol
Molecular Mass	46.4 kDa
AA Sequence	MVMFKKIKSFEVVFNDPEKVVYGSGEKVAGRVIVEVCEVTRVKAVRILACGVAKVLWM

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QGSQQCKQTL DYLR YEDTLLLEE QPTAGENEMVIMRPGNKYEYKFGFELPQG PLGT
SFKGKYGCVDYVWKAFLDRPSQPTQEAKKNFEVMDLVDVNTPDLMAPVSAKKEKK
VSCMFIPDGRVSVSARIDRKGFCGDDISIHADFENTCSRIVVPKAAIVARHTYLANG
QTKVFTQKLSSVRGNHIISGTCASWRGKSLRVQKIRPSILGCNLIKVEYSLLIYVSVPG
SKKVILD LPLVIGSRSG LSSRTSSMASRTSSEMSWIDLNIPDTPEAPPCYMDIIPEDHR
LESPTTPLLDDVDDSDQSPIFMYAPEFQFMPPPTYTEVDPCVLNNNNNNNNNVQ

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name Txnip thioredoxin interacting protein [*Mus musculus*]

Official Symbol TXNIP

Synonyms TXNIP; THIF; Tbp-2; VDUP1; Hyplip1; AA682105; 1200008J08Rik;

Gene ID 56338

mRNA Refseq NM_001009935

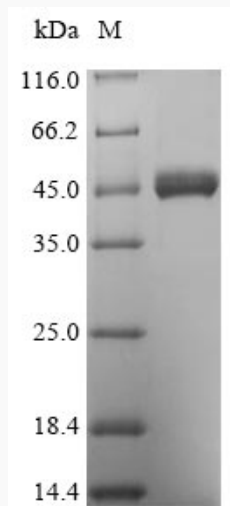
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Protein Refseq NP_001009935

UniProt ID Q8BG60



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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