

## Recombinant Mouse Txnip Protein, Myc/DDK-tagged

**Cat. No.** Txnip-6750M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length thioredoxin interacting protein (Txnip), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	44.7 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.

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**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Txnip thioredoxin interacting protein [ *Mus musculus* (house mouse) ]

**Official Symbol** Txnip

**Synonyms** TXNIP; thioredoxin interacting protein; thioredoxin-interacting protein; hyperlipidemia 1; thioredoxin binding protein-2; vitamin D3 up-regulated protein 1; upregulated by 1,25-dihydroxyvitamin D-3; THIF; Tbp-2; VDUP1; Hyplip1; AA682105; 1200008J08Rik

**Gene ID** 56338

**mRNA Refseq** NM\_023719

**Protein Refseq** NP\_076208

**UniProt ID** Q8BG60

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