Recombinant Mouse Txnip Protein, Myc/DDK-tagged

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

SPECIFICATION

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