

Recombinant Human TXNIP protein, His & T7-tagged

Cat. No. TXNIP-1556H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TXNIP aa. (Ile32~Ala367 (Accession # Q9H3M7)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile32~Ala367
Description	This gene encodes a thioredoxin-binding protein that is a member of the alpha arrestin protein family. Thioredoxin is a thiol-oxidoreductase that is a major regulator of cellular redox signaling which protects cells from oxidative stress. This protein inhibits the antioxidative function of thioredoxin resulting in the accumulation of reactive oxygen species and cellular stress. This protein also functions as a regulator of cellular metabolism and of endoplasmic reticulum (ER) stress. This protein may also function as a tumor suppressor. Alternate splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	46kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method).
Purity	>95%

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Characteristic	The isoelectric point is 7.6.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	TXNIP thioredoxin interacting protein [Homo sapiens (human)]
Official Symbol	TXNIP
Synonyms	THIF; VDUP1; ARRDC6; HHCPA78; EST01027; thioredoxin binding protein 2; upregulated by 1,25-dihydroxyvitamin D-3; vitamin D3 up-regulated protein 1; thioredoxin-interacting protein
Gene ID	10628
mRNA Refseq	NM_001313972.1
Protein Refseq	NP_001300901.1

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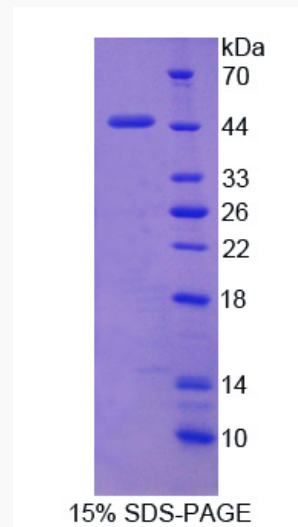
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UniProt ID

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SDS-PAGE

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