

## Recombinant Human TXNIP protein, His & T7-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TXNIP aa. (Ile32~Ala367 (Accession # Q9H3M7)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ile32~Ala367
<b>Description</b>	<p>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.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	46kDa as determined by SDS-PAGE reducing conditions.
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method).
<b>Purity</b>	>95%

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<b>Characteristic</b>	The isoelectric point is 7.6.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	TXNIP thioredoxin interacting protein [ Homo sapiens (human) ]
<b>Official Symbol</b>	TXNIP
<b>Synonyms</b>	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
<b>Gene ID</b>	10628
<b>mRNA Refseq</b>	NM_001313972.1
<b>Protein Refseq</b>	NP_001300901.1

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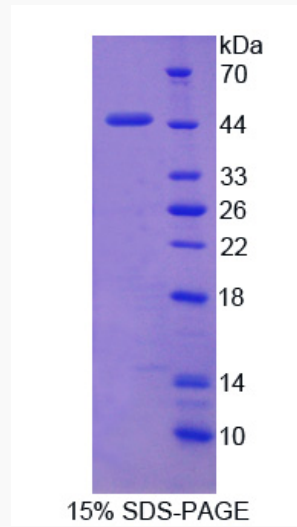
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UniProt ID

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SDS-PAGE



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