

# Recombinant Full Length Human TXNIP Protein, C-Flag-tagged

**Cat. No.** TXNIP-449HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human TXNIP Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 43.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MVMFKKIKSFEVVFNDPEKVYGSGEKVAGRVIVEVCEVTRVKAVRILACGVAKVLWM<br>QGSQQCKQTSEYL RYEDTLILLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGT<br>SFKGKYGCVDYWVKAFLDRPSQPTQETK KNFEVVDLVDVNTPDLMAPVSAKKEKK<br>VSCMFIPDGRVSVSARIDRKGFCGEDEISIHADFENTCSRIVV PKAAIVARHTYLANG<br>QTKVLTQKLSSVRGNHIISGTCASWRGKSLRVQKIRPSILGCNILRVEYSLLIYV SVP                                                                                                                                                                                                                                                                                                           |

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GSKKVILDPLVIGSRSGLSRTSSMASRTSSEMSWVDLNIPDTPEAPPCYMDVIPE  
DHRLESPTTP  
LLDDMDGSQDSPIFMYAPEFKFMPPPTYTEVDPCILNNNVQTRTRPLEQKLISEEDL  
AANDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome                                                                                                                              |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

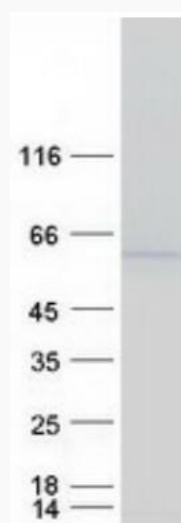
|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| <b>Gene Name</b>       | TXNIP thioredoxin interacting protein [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | TXNIP                                                          |
| <b>Synonyms</b>        | THIF; VDUP1; ARRDC6; HHCPA78; EST01027                         |
| <b>Gene ID</b>         | 10628                                                          |

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|                       |             |
|-----------------------|-------------|
| <b>mRNA Refseq</b>    | NM_006472.6 |
| <b>Protein Refseq</b> | NP_006463.3 |
| <b>MIM</b>            | 606599      |
| <b>UniProt ID</b>     | Q9H3M7      |



Coomassie blue staining of purified TXNIP protein.