



Human TXNIP peptide (DAG-P2037)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen 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. 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. |
| Purity | 70 - 90% by HPLC. |
| Conjugate | Unconjugated |
| Sequence Similarities | Belongs to the arrestin family. |
| Format | Liquid |
| Preservative | None |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

GENE INFORMATION

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

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| mRNA Refseq | NM_006472.4 |
| Protein Refseq | NP_006463.3 |
| UniProt ID | Q9H3M7 |
| Chromosome Location | 1q21.1 |
| Pathway | Immune System, organism-specific biosystem; Inflammasomes, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways, organism-specific biosystem; The NLRP3 inflammasome, organism-specific biosystem; |
| Function | enzyme inhibitor activity; protein binding; ubiquitin protein ligase binding; |