

Recombinant Human TRI26 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51018

Size: 10ug, 100ug

Protein Name: Tripartite motif-containing protein 26 (EC 2.3.2.27) (Acid finger protein) (AFP) (RING finger protein 95) (Zinc finger protein 173)

Synonym: TRIM26, RNF95, ZNF173

UniProt ID: Q12899

UniProt Link: www.uniprot.org/uniprotkb/Q12899/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 539 AA

Molecular Weight: 62 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MATSAPLRSLSEEEVTCISICLDYLRDPVTIDCGHVFCRSCTTDVRPISGSRPVCPLCKKPFKKENIRPV
WQLASLVENIERLKVDKGRQPGEVTREQQDAKLCERHREKLHYCEDDGKLLCVMCRESREHRPH
TAVLMEKAAQPHREKILNHLSTLRDRDKIQGFQAKGEADILAALKKLQDQRQYIVAEFEQGHQFLRE
REEHLLQLAKLEQELTEGREKFKSRGVGELARLALVISELEGKAQQPAAELMQDTRDFLNRYPRKK
FWVGKPIARVVKKKTGEFSDKLLSLQRGLREFQGKLLRDLEYKTVSVTLDPQSASGYLQLSEDWKC
VTYTSLYKSAYLHPQQFDCEPGVLGSKGFTWGKVYWEVEVEREGWSEDEEEEGDEEEEGEEEEEE
EEAGYGDGYDDWETDEDEESLGDEEEEEEEEEEEVLESCMVGVARDSVKRKGDLSLRPEDGVWA
LRLSSSGIWANTSPEALFPALRPRRVGIALDYEGGTVFTNAESQELIYFTATFTRLVLPFLWLKW
PGTRLLLRP

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Tripartite motif-containing protein 26 (EC 2.3.2.27) (Acid finger protein) (AFP) (RING finger protein 95) (Zinc finger protein 173) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: E3 ubiquitin-protein ligase which regulates the IFN-beta production and antiviral response downstream of various DNA-encoded pattern-recognition receptors (PRRs). Also plays a central role in determining the response to different forms of oxidative stress by controlling levels of DNA glycosylases NEIL1, NEIL3 and NTH1 that are involved in repair of damaged DNA (PubMed:29610152, PubMed:36232914). Promotes nuclear IRF3 ubiquitination and proteasomal degradation (PubMed:25763818). Bridges together TBK1 and NEMO during the innate response to viral infection leading to the activation of TBK1. Positively regulates LPS-mediated inflammatory innate immune response by catalyzing the 'Lys-11'-linked polyubiquitination of TAB1 to enhance its activation and subsequent NF-kappa-B and MAPK signaling (PubMed:34017102). In a manner independent of its catalytic activity, inhibits WWP2, a SOX2-directed E3 ubiquitin ligase, and thus protects SOX2 from polyubiquitination and proteasomal degradation (PubMed:34732716). Ubiquitinates the histone acetyltransferase protein complex component PHF20 and thereby triggers its degradation in the nucleus after its recruitment by the histone demethylase KDM6B, serving as a scaffold protein (PubMed:23452852). Upon induction by TGF-beta, ubiquitinates the TFIID component TAF7 for proteasomal degradation (PubMed:29203640). Induces ferroptosis by ubiquitinating SLC7A11, a critical protein for lipid reactive oxygen species (ROS) scavenging (By similarity). Inhibits directly hepatitis B virus replication by mediating HBX ubiquitination and subsequent degradation (PubMed:35872575).; (Microbial infection) Promotes herpes simplex virus type 2/HHV-2 infection in vaginal epithelial cells by decreasing the nuclear localization of IRF3, the primary mediator of type I interferon activation.

Subcellular Localization: Cytoplasm . Nucleus . Note=Viral infection mediates TRIM26 nuclear translocation.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.