

Recombinant Human TRIM6 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51021

Size: 10ug, 100ug

Protein Name: Tripartite motif-containing protein 6 (EC 2.3.2.27) (RING finger protein 89) (RING-type E3 ubiquitin transferase TRIM6)

Synonym: TRIM6, RNF89

UniProt ID: Q9C030

UniProt Link: www.uniprot.org/uniprotkb/Q9C030/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 488 AA

Molecular Weight: 56 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTSPVLVDIREEVTCPICLELLTEPLSIDCGHSFCQACITPNGRESVIGQEGERSCPVCQTSYQPGNL
RPNRHLANIVRRLREVVLGPGKQLKAVLCADHGEKLQLFCQEDGKVICWLCERSQEHRGHHTFLVE
EVAQEYQEKFKESLKKLKNEEQEAEKLTAFIREKKT SWKNQMEPERCRIQTEFNQLRNILDRVEQRE
LKKLEQEEKKGLRIIEEAENDLVHQTQSLRELISDLERRCQGSTMELLQDVSDVTERSEFWTLRKPEA
LPTKLRSMFRAFDLKRMLRVCRELTDVQSYWVDVTLPHTANLNLVLAKNRRQVRFGAKVSGPSC
LEKHYDCSVLGSQHFSSGKHYWEVDVAKKTAWILGVCSNSLGPTFSFNHFAQNHSAYSRYQPQSG
YWVIGLQHNHEYRAYEDSSPSLLLSMTVPPRRVGVFLDYEAGTVSFYNVTNHGFPITYTFSKYFFPTT
LCPYFNPCNCVIPMTLRRPSS

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 6 (EC 2.3.2.27) (RING finger protein 89) (RING-type E3 ubiquitin transferase TRIM6) 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 ligase that plays a crucial role in the activation of the IKBKE-dependent branch of the type I interferon signaling pathway (PubMed:24882218, PubMed:31694946). In concert with the ubiquitin-conjugating E2 enzyme UBE2K, synthesizes unanchored 'Lys-48'-linked polyubiquitin chains that promote the oligomerization and autophosphorylation of IKBKE leading to stimulation of an antiviral response (PubMed:24882218). Also ubiquitinates MYC and inhibits its transcription activation activity, maintaining the pluripotency of embryonic stem cells (By similarity). Promotes the association of unanchored 'Lys-48'-polyubiquitin chains with DHX16 leading to enhanced RIGI-mediated innate antiviral immune response (PubMed:35263596).; (Microbial infection) Ubiquitinates ebolavirus protein VP35 leading to enhanced viral transcriptase activity.

Subcellular Localization: Cytoplasm .

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.