

Recombinant Human U17L2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51036

Size: 10ug, 100ug

Protein Name: Ubiquitin carboxyl-terminal hydrolase 17 (USP17) (EC 3.4.19.12) (Deubiquitinating enzyme 17-like protein 2) (Deubiquitinating protein 3) (DUB-3) (Ubiquitin carboxyl-terminal hydrolase 17-like protein 2) (Ubiquitin thioesterase 17-like protein 2) (Ubiquitin-specific-processing protease 17-like protein 2)

Synonym: USP17L2, DUB3, USP17, USP17H, USP17I, USP17J, USP17K, USP17L, USP17M

UniProt ID: Q6R6M4

UniProt Link: www.uniprot.org/uniprotkb/Q6R6M4/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 530 AA

Molecular Weight: 60 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEDDSL YLGGEWQFNHFSKLTSSRPDAFAEIQR TSLPEKSPLSSEARVDLCDDLAPVARQLAPRK
KLPLSSRRPAAVGAGLQNMGNTCYENASLQCLTYTPPLAN YMLSREHSQTCQRPKCCMLCTMQAH
ITWALHSPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLP GHKQVDHHSKDTTLIHQIFG
GCWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVKQALEQLVKPEELNGENAYHCGLC LQRAPASK
TLTLHTSAKVLILVLKRFSDVTGNKLAKNVQYPECLDMQPYMSQQNTGPLVYVLYAVLVHAGWSCH
DGHYFSYVKAQEGQWYKMDDAKVTACSITSVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGA
EDTDRRATQGELKRDHPCLQAPELDERLVERATQESTLDHWKFPQEQNKTKPEFNVRKVEGTLPP
NVLVIHQSKYKCGMKNHHPEQQSSLLNLSSTTRTDQESVNTGTLASLQGRTRRSKGKNKHSKRALL
VCQ

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 Ubiquitin carboxyl-terminal hydrolase 17 (USP17) (EC 3.4.19.12) (Deubiquitinating enzyme 17-like protein 2) (Deubiquitinating protein 3) (DUB-3) (Ubiquitin carboxyl-terminal hydrolase 17-like protein 2) (Ubiquitin thioesterase 17-like protein 2) (Ubiquitin-specific-processing protease 17-like protein 2) 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: Deubiquitinating enzyme that removes conjugated ubiquitin from specific proteins to regulate different cellular processes. Regulates cell proliferation by deubiquitinating and inhibiting RCE1 thereby controlling the small GTPases NRAS and HRAS localization and activation. In parallel, mediates deubiquitination of CDC25A, preventing CDC25A degradation by the proteasome during the G1/S and G2/M phases promoting cell-cycle progression. Also regulates cell proliferation and apoptosis through deubiquitination of SUDS3 a regulator of histone deacetylation. Through activation of the Rho family GTPases RAC1A, CDC42 and RHOA, regulates cell migration. Through the cleavage of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains of the cytoplasmic innate immune receptors RIGI and IFIH1 stimulates the cellular response to viral infection.

Subcellular Localization: Nucleus . Endoplasmic reticulum .

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.