

USP14 Human

Description: USP14 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 517 amino acids (1-494 a.a) and having a molecular mass of 58.5kDa. USP14 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-023

For research use only.

Synonyms: TGT, Ubiquitin thioesterase 14, Deubiquitinating enzyme 14, Ubiquitin thioesterase 14, Ubiquitin-specific-processing protease 14.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSMPLYSVT VKWGKEKFEG
VELNTDEPPM VFKAQLFALT GVQPARQKVM VKGGTLKDDD WGNIKIKNGM TLLMMGSADA
LPEEPSAKTV FVEDMTEEQL ASAMELPCGL TNLGNTCYMN ATVQCIRSVP ELKDALKRYA
GALRASGEMA SAQYITAALR DLFDSMDKTS SSIPPIILLQ FLHMAFPQFA EKGEQGQYLQ
QDANECWIQM MR

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

USP14 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 20% glycerol and 1mM DTT.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

USP14 belongs to the ubiquitin-specific processing (UBP) family of proteases which is a deubiquitinating enzyme (DUB) containing His and Cys domains. USP14 placed in the cytoplasm and cuts the ubiquitin from ubiquitin-fused precursors and ubiquitinated proteins. A mutation which results in reduced expression of the ortholog of USP14 in mice inhibits growth, develop severe tremors by 2 to 3 weeks of age followed by paralysis and death by 6 to 10 weeks of age.

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