

Recombinant human USP14 protein

Catalog Number: ATGP1921

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-494aa

UniProt No.

P54578

NCBI Accession No.

NP_005142

Alternative Names

ubiquitin carboxyl-terminal hydrolase 14, TGT, ubiquitin thioesterase 14

PRODUCT SPECIFICATION

Molecular Weight

58.5 kDa (517aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

uSP14 is a member of the ubiquitin-specific processing (uBP) family of proteases that is a deubiquitinating enzyme (DuB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitylated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Recombinant human uSP14 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

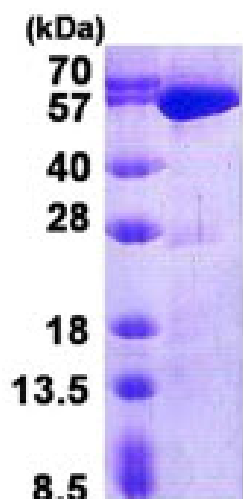
MGSSHHHHHH SSSLVPRGSH MGSMPLYSVT VKWGKEKFEG VELNTDEPPM VFKAQLFALT GVQPARQKVM
VKGGTLKDDD WGNIKIKNGM TLLMMGSADA LPEEPSAKTV FVEDMTEEQL ASAMELPCGL TNLGNTCYMN ATVQCIRSVP
ELKDALKRYA GALRASGEMA SAQYITAALR DLFDSMDKTS SSIPPIILLQ FLHMAFPQFA EKGEQGQYLQ QDANECWIQM
MRVLQKLEA IEDDSVKETD SSSASAATPS KKKSLIDQFF GVEFETTMKC TESEEEVTK GKENQLQLSC FINQEVKYL
TGLKLRLQEE ITKQSPTLQR NALYIKSSKI SRLPAYLTIQ MVRFFYKEKE SVNAKVLKDV KFPLMLDYE LCTPELQEK
VSFRSKFKDL EDKKNVQPN TSDKKSSPQK EVKYEPFSA DDIGSNCGY YDLQAVLTHQ GRSSSSGHYV SWVKRKQDEW
IKFDDDKVSI VTPEDILRLS GGGDWHIAYV LLYGPRRVEI MEESEQ

General References

Shinji S, Naito Z, et al. (2009). *Oncol Rep.* 15(3):539-43.
Mines MA, Goodwin JS, et al. (2009). *J Biol Chem.* 284(9):5742-52.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)