

USP14, 1-494aa Human, His tag, E.coli

Cat.NO.: TP04444

3th Edition

Synonyms:Ubiquitin carboxyl-terminal hydrolase 14, TGT, Ubiquitin thioesterase 14

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.

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

Molecular Weight:58.5 kDa (517aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMPLYSVTVKWGKEKFEGVELNTDEPPMVFKAQLFALTGVQPARQKVMVKG
GTLKDDDWGNIKIKNGMTLLMMGSADALPEEPSAKTVFVEDMTEEQLASAMELPCGLTNLGNTCYMNATVQCIRS
VPELKDALKRYAGALRASGEMASQAQYITAALRDLFDSMDKTSSSIPPIILLQFLHMAFPQFAEKGEQGQYLQQDANE
CWIQMMRVLQQKLEAIEDDSVKETDSSSASAATPSKKKSLIDQFFGVFETTMKCTESEEEVTKGKENQLQLSCFI
NQEVKYLFGLKRLQEEITQSPTLQRNALYIKSSKISRLPAYLTIQMVRRFFYKEKESVNAKVLKDVKFLMLDMYEL
CTPELQEKMVSFRSKFKDLEDKKNQNPNTSDKKSSPQKEVKYEPFSFADDIGSNNGYYDLQAVLTHQGRSSSS
GHYVSWVKRKQDEWIKFDDDKVSIPTPEDILRLSGGGDWHIAYVLLYGPRRVEIMEESEQ

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.