
Product Data Sheet

Product Name: UCHL5 Human
 Cat. No.: GP22374
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ubiquitin Carboxyl-terminal Hydrolase L5; UCH37; CGI-70; UCH-L5; INO80R; Ubiquitin thioesterase L5; INO80 complex subunit R; EC 3.4.19.12; Ubiquitin Carboxyl-terminal Esterase L5.		
Amino Acid Sequence	MGSSHHHHHSSGLVPRGSH MTGNAGEWCL MESDPGVFTE LIKGFGRGA QVEEWSLEP ENFEKLKPVH GLIFLKWQP GEEPAGSVVQ DSRLDTIFFA KQVINNACAT QAIVSVLLNC THQDVHLGET LSEFKEFSQS FDAAMKGLAL SNSDVIRQVH NSFARQQMFE FDTKTSAKEE DAFHFVSYVP VNGRLYELDG LREGPIDLGA CNQDDWISAV RPVIEKRIQK YSEGEIRFNL MAIVSDRDMI YEQKIAELQR QLAEEEPMDT DQNSMLSAI QSEVAKNQML IEEEVQKLKR YKIENIRRKH NYLPMFIMELL KTLAEHQQLI PLVEKAKEKQ NAKKAQETK		
Formulation	The UCHL5 protein solution (0.5mg/ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 5mM DTT, 200mM NaCl, 0.1mM PMSF, 2mM EDTA and 30% glycerol.		

Introduction

UCHL5 is a member of the peptidase C12 family. UCHL5 protein is a protease that specifically cleaves 'Lys-48'-linked polyubiquitin chains, and deubiquitinating enzyme related to the 19S regulatory subunit of the 26S proteasome.

Biological Activity

Specific activity: > 500 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C .

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

UHL5 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids (1-329 a.a.) and having a molecular mass of 39.7 kDa. UHL5 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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