

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

UCHL3 Protein, Human (His)

Cat. No.:	HY-P71115			
Synonyms:	Ubiquitin Carboxyl-Terminal Hydrolase Isozyme L3; UCH-L3; Ubiquitin Thioesterase L3; UCHL3			
Species:	Human			
Source:	E. coli			
Accession:	P15374 (M1-A230)			
Gene ID:	7347			
Molecular Weight:	Approximately 25.0 kDa			

PROPERTIES					
AA Sequence		E V T N Q F L L L F P I T E	K Q L G L H P N W Q K Y E V F R T E E E	F	
	KFLEESVSMS PEE SIDEKVDLHF IAL	A C G T I G L R A R Y L E N V H V D G H L E R D P D E L	I H A I A N N K D K Y D A I R V T H E T Y E L D G R K P F P R F N A I A L S A A	M H F E S G S T L K S A H E G Q T E A P I N H G E T S D E T	
Appearance	Solution.				
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 50% Glycerol, pH 8.0.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	N/A				
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.				
Shipping	Shipping with dry ice.				

DESCRIPTION

Background

UCHL3 protein, a deubiquitinating enzyme (DUB), plays a crucial role in controlling cellular ubiquitin levels by processing ubiquitin precursors and hydrolyzing ubiquitinated proteins. As a thiol protease, UCHL3 exhibits a 10-fold preference for Arg and Lys at position P3'', with a particular affinity for 'Lys-48'-linked ubiquitin chains. In apical compartments, UCHL3 deubiquitinates ENAC, influencing apical membrane recycling. Additionally, it indirectly enhances the phosphorylation of IGFIR, AKT, and FOXO1, promoting insulin signaling and insulin-induced adipogenesis. UCHL3's involvement extends to stress-response in retinal, skeletal muscle, and germ cells, contributing to their maintenance. Notably, it can hydrolyze UBB(+1), a mutated form of ubiquitin associated with neurodegenerative disorders, which is not effectively degraded by the

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA