

Recombinant Human Ubiquitin-conjugating Enzyme E2 L3, His

Information

Gene ID	
Accession #	
Alternate Names	L-UBC, UbcH7, Ubiquitin Carrier Protein L3, Ubiquitin-protein Ligase L3
Source	Escherichia coli.
M.Wt	Approximately 18.9 kDa, a single non-glycosylated polypeptide chain containing 154 amino acids (a.a.) of human UBE2L3/UBCH7 and 8 a.a. vector sequence including 6 × His tag at N-terminus.
AA Sequence	MHHHHHHAMA ASRRLMKELE EIRKCGMKNF RNIQVDEANL LTWQGLIVPD NPPYDKGAFR IEINFPAEYP FKPPKITFKT KIYHPNIDEK GQVCLPVISA ENWKPATKTD QVIQSLIALV NDPQPEHPLR ADLAEEYSKD RKKFCKNAEE FTKKYGEKRP VD
Appearance	Sterile Colorless liquid.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 6 months from date of receipt, -20 to -70 °C as supplied - 3 months, -20 to -70 °C under sterile conditions after opening
Formulation	A 0.2 μm filtered concentrated solution in 50 mM HEPES, pH 7.0, with 125 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
Reconstitution	The second and the se
Biological Activity	Data is not available.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
	For Research Lise Only! Not to be used in humans

Components and Storage Per Per

Components	10µg	100µg	500µg
Recombinant Human Ubiquitin-conjugating Enzyme E2 L3, His	10µg	100µg	500µg

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Quality Control	19. 19.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/µg of rHuUBE2L3, His as determined by LAL method.

Description

Ubiquitin-conjugating enzyme E2 L3 belongs to the ubiquitin-conjugating enzyme family and is encoded by the UBE2L3 gene in humans. The ubiquitin-conjugating enzymes, also known as E2 enzymes and more rarely as ubiquitin-carrier enzymes, take part in the second step in the ubiquitination reaction. In this reaction, E1 activates the ubiquitin by covalently attaching the molecule to its active site cysteine residue. The activated ubiquitin is then transferred to an E2 cysteine and then the E2 molecule binds E3 via a structurally conserved binding region. The UBE2L3 specifically acts with HECT-type and RBR family E3 ubiquitin-proteinshown to interact with UBOX5, ARIH1, CbI gene, UBE3A and NEDD4. Down-regulated during the S-phase it is involved in progression through the cell cycle. Additionally, UBE2L3 regulates nuclear hormone receptors transcriptional activity and plays a role in myelopoiesis.

Reference

- 1. Serniwka SAandShaw GS. 2008. Biomol NMR Assign, 2: 21-3
- 2. Wenzel DM, Lissounov A, Brzovic PS, et al. 2011. Nature, 474: 105-8
- 3. Whitcomb EAandTaylor A. 2009. Cell Div, 4: 17
- 4. Moynihan TP, Ardley HC, Nuber U, et al. 1999. J Biol Chem, 274: 30963-8.

