Recombinant Human Ubiquitin-conjugating Enzyme E2 L3, His

Catalog No: #AP60436

Package Size: #AP60436-1 10ug #AP60436-2 100ug #AP60436-3 500ug

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Description

Product Name	Recombinant Human Ubiquitin-conjugating Enzyme E2 L3, His
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	L-UBC, UbcH7, Ubiquitin Carrier Protein L3, Ubiquitin-protein Ligase L3
Calculated MW	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 x His tag at N-terminus.
Target Sequence	MHHHHHHAMA ASRRLMKELE EIRKCGMKNF RNIQVDEANL LTWQGLIVPD NPPYDKGAFR IEINFPAEYP FKPPKITFKT KIYHPNIDEK GQVCLPVISA ENWKPATKTD QVIQSLIALV NDPQPEHPLR ADLAEEYSKD RKKFCKNAEE FTKKYGEKRP VD
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.
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.

Background

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, Cbl 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.

Note: This product is for in vitro research use only