

Recombinant Human Ubiquitin-conjugating Enzyme E2 L3, His

#R00517

Size: 10 µg/100 µg/500 µg

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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

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-protein shown 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.

AA Sequence

MHHHHHHAMAASRRMLKELEEIRKCGMKNFNRIQV
DEANLLTWQGLIVPDNPPYDKGAFRIEINFPAEYPFKP
PKITFKTKIYHPNIDEKGQVCLPVISAENWKPATKTDQ
VIQSLIALVNDPQPEHPLRADLAAEYSKDRKKFCKNA
EEFTKKYGEKRPVD

Product Specification

Synonyms	L-UBC, Ubch7, Ubiquitin Carrier Protein L3, Ubiquitin-protein Ligase L3
Species	Human
Source	Escherichia coli.
Tags	His
Molecular Weight	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.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data is not available.
Physical	Sterile Colorless liquid.

Appearance	
Concentration	See CoA.
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.
Endotoxin	Less than 1 EU/µg of rHuUBE2L3, His as determined by LAL method.
