

Recombinant Human Ubiquitin-conjugating Enzyme E2 B, His

#R00515

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 B belongs to the ubiquitin-conjugating enzyme family and is encoded by the UBE2B 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 ubiquitination reaction can modify proteins and regulate protein degradation. The UBE2B interacts with RAD18, UBR2 and WAC. Its protein sequence is 100 % identical to the mouse, rat, and rabbit homologs, which indicates that this enzyme is highly conserved in eukaryotic evolution.

AA Sequence

MHHHHHHAMGQLRSMSTPARRRLMRDFKRLQEDPP
VGVSGAPSENNIMQWNAVIFGPEGTPFEDGTfKLVIE
FSEEYPNKPPTVRFLSKMFHPNVYADGSICLDILQNR
WSPTYDVSSILTSIQSLLDEPNPNSPANSQAAQLYQE
NKREYEKRVSAIVEQSWNDS

Product Specification

Synonyms	HR6B, Ubiquitin Carrier Protein B, Ubiquitin-protein Ligase B
Species	Human
Source	Escherichia coli.
Tags	His
Molecular Weight	Approximately 19.0 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids of human UBE2B and 14 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 Appearance	Sterile Colorless liquid.
Concentration	See CoA.

Formulation	A 0.2 μ m filtered concentrated solution in 50 mM HEPES, pH 7.6 with 125 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
Endotoxin	Less than 1 EU/ μ g of rHuUBE2B, His as determined by LAL method.
