Recombinant Human Ubiquitin-conjugating Enzyme E2 B, His

Catalog No: #AP60434

Package Size: #AP60434-1 10ug #AP60434-2 100ug #AP60434-3 500ug

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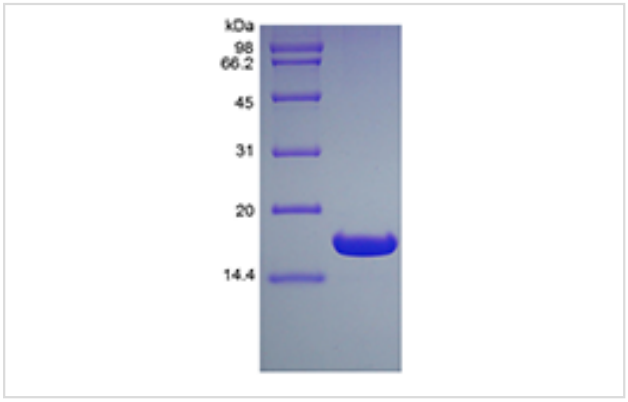
Description

Product Name	Recombinant Human Ubiquitin-conjugating Enzyme E2 B, His
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	HR6B, Ubiquitin Carrier Protein B, Ubiquitin-protein Ligase B
Calculated MW	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 x His tag at N-terminus.
Target Sequence	MHHHHHHAMG QLRSMSTPAR RRLMRDFKRL QEDPPVGVSG APSENNIMQW NAVIFGPEGT PFEDGTFKLV IEFSEEYPNK PPTVRFLSKM FHPNVYADGS ICLDILQNRW SPTYDVSSIL TSIQSLLDEP NPNSPANSQA AQLYQENKRE YEKRVSAIVE QSWNDS
Formulation	A 0.2 μm filtered concentrated solution in 50 mM HEPES, pH 7.6 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.

Images



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.

Note: This product is for in vitro research use only