Recombinant Human Ubiquitin Conjugating Enzyme 9, His6-Tagged

Cat. No. UBE2I-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ubiquitin Conjugating Enzyme 9 produced in*E.coli*is a single non-glycosylated polypeptide chain containing 171 amino acids and having a molecular mass of approximately 19.5 kDa.
Species	Human
Source	E.coli
Description	Human Ubquitin Conjugating Enzyme 9 (Ubc9) is a member of the E2 family and is specific for the conjugation of SUMO to a variety of target proteins. SUMO conjugation to target proteins is mediated by a different, but analogous, pathway to ubiquitinylation. This E2 is unusual in that it interacts directly with protein substrates that are modified by sumolyation, and may play a role in substrate recognition. Ubc9 can mediate the conjugation of SUMO-1 to a variety of proteins including RanGAP1, IκBα, and PML without the requirement of an E3 ligase.
Purity	>95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in 1×PBS, 1mM DTT, pH 7.5.
Endotoxin	Less than 1EU/μg of rHuUbc9 as determined by LAL method.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the

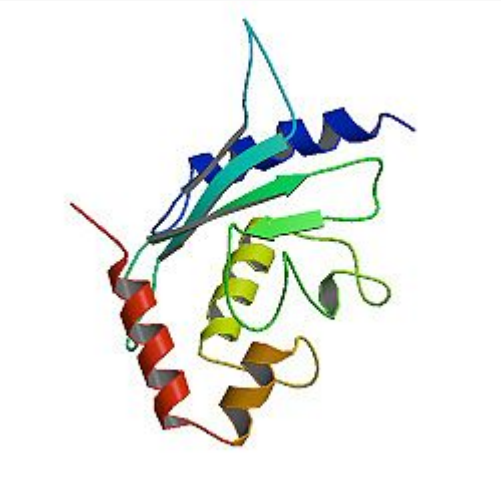
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	contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.
Storage	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	UBE2I
Synonyms	P18; UBC9; C358B7.1; ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast); ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9); UBC9_HUMAN; SUMO-conjugating enzyme UBC9; EC6.3.2.-; SUMO-protein ligase; Ubiquitin-protein ligase I; Ubiquitin carrier protein I; Ubiquitin carrier protein 9; UBE2I;UBCE9; Ubiquitin-protein ligase I; ubiquitin carrier protein; ubiquitin conjugating enzyme 9; ubiquitin-conjugating enzyme E2I; ubiquitin-conjugating enzyme UbcE2A; ubiquitin-like protein SUMO-1 conjugating enzyme; ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)
Gene ID	7329
mRNA Refseq	NM_003345
Protein Refseq	NP_003336

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MIM	601661
UniProt ID	P63279
Chromosome Location	16p13.3
Function	HLH domain binding;ligase activity;protein binding; small conjugating protein ligase activity.
PDBrendering based on 1a3s. Available structures:1a3s,1kps,1u	

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