

Ubiquitin Conjugating Enzyme 9

Human, Recombinant (rHuUbc9, His6-tagged)

Expressed in *E. coli*

Cat. No. CRP08136

Lot. No. (See product label)



PDB rendering based on 1a3s.

Available structures: [1a3s](#), [1kps](#), [1u9a](#), [1u9b](#),
[1z5s](#) [2grn](#), [2gro](#), [2grp](#), [2grq](#), [2grr](#), [2o25](#), [2pe6](#)

PRODUCT INFORMATION

Description: Human Ubiquitin 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 sumoylation, and may play a role in substrate recognition. Ubc9 can mediate the conjugation of SUMO-1 to a variety of proteins including RanGAP1, I κ B α , and PML without the requirement of an E3 ligase.

Amino-Acid Sequence: 171aa. non-glycosylated

M. W. : Approximately 19.5 kDa

Recombinant: Expressed in *E. coli*

Purity: >95% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in 1 \times PBS, 1mM DTT, pH 7.5.

Endotoxin: Less than 1EU/ μ g of rHuUbc9 as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the 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.

FOR RESEARCH USE ONLY

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; EC 6.3.2.-; 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.

mRNA Refseq: [NM_003345](#)

Protein Refseq : [NP_003336](#)

MIM: [601661](#)

UniProt ID: P63279

Gene ID: [7329](#)

Chromosome Location: 16p13.3

Function: HLH domain binding;ligase activity;protein binding; small conjugating protein ligase activity.

REFERENCES

- 1.Yasugi T, Howley PM (1996). Identification of the structural and functional human homolog of the yeast ubiquitin conjugating enzyme UBC9. *Nucleic Acids Res.* 24 (11): 2005–10.
- 2.Göttlicher M, Heck S, Doucas V, et al. (1996). Interaction of the Ubc9 human homologue with c-Jun and with the glucocorticoid receptor. *Steroids* 61 (4): 257–62.

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