

Recombinant Human Ubiquitin Conjugating Enzyme 9, His

Cat. No. Ubc9-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ubiquitin Conjugating Enzyme 9 produced in E.coli is a 19.5 kDa protein containing 171 amino acids. The Ubc9 protein contains 6xHis tag and is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
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 ubiquitylation. 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, IκBα, and PML without the requirement of an E3 ligase.
Amino acid sequence	MHHHHHHAMGTLNMSGIALSRLAQERKAWRKDHPFGFVAVPTKNPDGTMNLMNW ECAIP GKKGTPWEGGLFKLRMLFKDDYPSSPPKCKFEPLFHPNVYPSGTVCLSILE EDKDWRP AITIKQILLGIQELLNEPNIQDPAQAEAYTIYCQNRVEYEKRVRAQAKKFA PS.
Physical Appearance	Sterile Filtered white lyophilized powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Formulation	Lyophilized from a 0.2 µm filtered concentrated (1 mg/ml) solution in 1X PBS and 1 mM DTT, pH 7.5.
Solubility	It is recommended to reconstitute the lyophilized Ubc9 in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized Ubc9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Ubc9 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
GENE INFORMATION	
Synonyms	SUMO-conjugating enzyme UBC9; EC 6.3.2.-; SUMO-protein ligase; Ubiquitin-conjugating enzyme E2 I; Ubiquitin-protein ligase I; Ubiquitin carrier protein I; Ubiquitin carrier protein 9; p18; UBC9; C358B7.1; P18; UBCE9; SUMO-1-protein ligase; SUMO-protein ligase; ubiquitin carrier protein; ubiquitin conjugating enzyme 9; ubiquitin-conjugating enzyme E2I; ubiquitin-conjugating enzyme E2I (UBC9 homolog; yeast); ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9); ubiquitin-conjugating enzyme UbcE2A; ubiquitin-like protein SUMO-1 conjugating enzyme; ubiquitin-protein ligase E2I.