

Recombinant Human Ubiquitin Conjugating Enzyme 9, His

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

SPECIFICATION

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| 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 GKKGTPWEGGLFKLRMLFKDDYPSSPPKCKFEPPLFHPNVYPSGTVCLSILE EDKDWRP AITIKILLGIQELLNEPNIQDPAQAEAYTIYCQNRVEYEKRVRAQAKKFA 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. |

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| 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

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| 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. |
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