

UBE2I

Recombinant Human Ubiquitin Conjugating Enzyme 9 His

Catalog No.	CSI12723 CSI12724 CSI12725	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	UBC9, P18, UBE2I, SUMO-conjugating enzyme UBC9		
Description:	<p>Ubiquitin Conjugating Enzyme 9 (UBC9) belongs to the ubiquitin-conjugating enzyme family and is encoded by the UBE2I 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 UBC9 accepts the ubiquitin-like proteins SUMO1-4 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2 or CBX4. Additionally, it takes part in the formation of poly-SUMO chains, sumoylation of FOXL2 and KAT5, and the segregation of nuclear architecture and chromosome.</p> <p>Recombinant Human UBC9 is a single non-glycosylated polypeptide chain containing 158 amino acids of human UBC9 and an 8 amino acid vector sequence including a 6X His-tag at the N-terminus.</p>		
Gene ID:	7329		
Source:	<i>E. coli</i>		
Molecular Weight:	~19.5 kDa		
Formulation:	Sterile liquid in 50 mM HEPES + 125 mM NaCl + 1 mM DTT + 10% Glycerol, pH 7.6		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg of protein as determined by LAL method		
Amino Acid Sequence:	<p>MHHHHHHAMG TLNMSGIALS RLAQERKAWR KDHPFGFVAV PTKNPDGTMN LMNWECAIPG KKGTPWEGGL FKLRMLFKDD YPSSPPKCKF EPPLFHPNVY PSGTVCLSIL EEDKDWRPAI TIKQILLGIQ ELLNEPNIQD PAQAEAYTIY CQNRVEYEKR VRAQAKKFAP S</p>		
Handling Notes:	Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Stable for 1 year at -20°C. Avoid repeated freeze/thaw cycles.		

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