Recombinant Human Ubiquitin-conjugating Enzyme E2I

Cat. No. UBE2I-34H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ubiquitin-conjugating enzyme E2I was expressed in*E.coli*. MW =18 kDa (158 aa).
Species	Human
Source	E.coli
Description	Human Ubc9 is homologous to ubiquitin-conjugating enzymes (E2s). However, instead of conjugating ubiquitin, it conjugates an ubiquitin homologue, small ubiquitin-like modifier 1(SUMO-1). And hUbc9 retains striking structural and functional conservation with yeast Ubc9. The ubiquitin-dependent protein degradation system has been recognized as a complete enzymatic pathway that is responsible for the selective degradation of abnormal and short-lived proteins. The conjugation of ubiquitin requires the activities of ubiquitin-activating (E1) and –conjugating (E2) enzymes.
Amino Acid Sequence	MSGIALSRLA QERKAWRKDH PFGFVAVPTK NPDGTMNLMN WECAIPGKKG TPWEGGLFKL RMLFKDDYPS SPPKCKFEPP LFHPNVYPSG TVCLSILEED KDWRPAITIK QILLGIQELL NEPNIQDPAQ AEAYTIYCQN RVEYEKRVRA QAKKFAPS
Form	Liquid. In 50 mM HEPES (pH 7.5) containing 1 mM DTT, 150 mM NaCl 10% glycerol.
Purity	> 95% 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

Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 μg of protein (determined by LAL method).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	UBE2Iubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast) [Homo sapiens]
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
Gene ID	7329
mRNA Refseq	NM_003345
Protein Refseq	NP_003336
MIM	601661
UniProt ID	P63279
Chromosome Location	16p13.3

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

Function	HLH domain binding;ligase activity;protein binding; small conjugating protein ligase activity
PDB rendering based on 1a3s.	

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