Recombinant Human Ubiquitin-conjugating Enzyme E2 M (rHuUBE2M)

PrimeGene Technical Data Sheet

Catalog Number:	501-12A
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 20.9 kDa, a single non-glycosylated polypeptide chain containing 183 amino acids.
Quantity:	5μg/20μg/1000μg
AA Sequence:	MIKLFSLKQQ KKEEESAGGT KGSSKKASAA QLRIQKDINE LNLPKTCDIS FSDPDDLLNF KLVICPDEGF YKSGKFVFSF KVGQGYPHDP PKVKCETMVY HPNIDLEGNV CLNILREDWK PVLTINSIIY GLQYLFLEPN PEDPLNKEAA EVLQNNRRLF EQNVQRSMRG GYIGSTYFER CLK
Concentration:	See label.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Data is not available.
Physical Appearance:	Sterile Filtered Liquid.
Formulation:	A 0.2 μm filtered concentrated solution in 50 mM HEPES, pH 6.5, with 125 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
Endotoxin:	Less than 0.1 EU/μg of rHuUBE2M as determined by LAL method.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 6 months from date of receipt, -20 to -70 °C as supplied. ● 3 months, -20 to -70 °C under sterile conditions after opening.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE.**

Human Ubiquitin-conjugating Enzyme E2 M

NEDD8-Conjugating Enzyme Ubc12 belongs to the ubiquitin-conjugating enzyme family and is encoded by the UBE2M 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 UBC12 accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins. The specific interaction with the E3 ubiquitin ligase RBX1, but not RBX2, suggests that the RBX1-UBE2M complex neddylates specific target proteins, such as CUL1, CUL2, CUL3 and CUL4. Additionally, it involved in cell proliferation.

Shanghai PrimeGene Bio-Tech Co., Ltd.
Website: www.primegene.com.cn
Tel: +86 21 52380373
Website: www.primegene.com
Fax: +86 21 61077348
Email: info.pg@bio-techne.com