

Recombinant Protein Technical Manual Recombinant Human UBE2M/UBC12 Protein

RPES3853

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Species: Human

Size: 10μg

Expression host: E. coli

Uniprot: P61081

Protein Information

Molecular Mass:	20.9 kDa
AP Molecular Mass:	25 kDa
Tag:	
Bio-activity:	
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping:	This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at<-20°C.
Formulation:	Supplied as a 0.2 μm filtered solution of 50mM HEPES,pH 7.5,2mM DTT,150mM NaCl,10% Glycerol.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	NEDD8-conjugating enzyme Ubc12; NEDD8 carrier protein; NEDD8 protein ligase; Ubiquitin-conjugating enzyme E2 M: UBC12: UBE2M:

Sequence: Met1-Lys183

Background:

UBE2M is a member of the E2 ubiquitin-conjugating enzyme family. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This protein is linked with a ubiquitin-like protein, NEDD8, which can be conjugated to cellular proteins, such as Cdc53/culin. UBE2M 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. It involved in cell proliferation and is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation.