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### Recombinant Human UBE2M/UBC12 Protein

Catalog No. PKSH033478

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

**Synonyms** NEDD8-conjugating enzyme Ubc12;NEDD8 carrier protein;NEDD8 protein

ligase;Ubiquitin-conjugating enzyme E2 M;UBC12;UBE2M;

**Species** Human **Expression Host** E.coli

**Sequence** Met1-Lys183

P61081 Accession Calculated Molecular Weight 20.9 kDa Observed molecular weight 25 kDa Tag None

**Bioactivity** Not validated for activity

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein 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

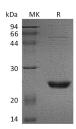
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of 50mM HEPES, 2mM DTT, 150mM NaCl,

10% Glycerol, pH 7.5.

Reconstitution Not Applicable

#### Data



> 95 % as determined by reducing SDS-PAGE.

# **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

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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.

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