

# Recombinant Human UBE2M/UBC12 Protein

Catalog Number:PKSH033478



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

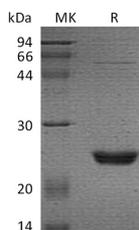
## Description

<b>Synonyms</b>	NEDD8-conjugating enzyme Ubc12;NEDD8 carrier protein;NEDD8 protein ligase;Ubiquitin-conjugating enzyme E2 M;UBC12;UBE2M;
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met1-Lys183
<b>Accession</b>	P61081
<b>Calculated Molecular Weight</b>	20.9 kDa
<b>Observed molecular weight</b>	25 kDa
<b>Tag</b>	None

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 50mM HEPES, 2mM DTT, 150mM NaCl, 10% Glycerol, pH 7.5.
<b>Reconstitution</b>	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 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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