Product Name: Recombinant Human UBE2M
Catalog #: PEH1770

Summary

Name	UBE2M/NEDD8-conjugating enzyme Ubc12/UBC12
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Ubiquitin-conjugating Enzyme E2M is produced by our E.coli expression system and the target gene encoding Met1-Lys183 is expressed.
Accession #	P61081
Host	E.coli
Species	Human
Predicted Molecular Mass	20.9 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 50mM HEPES, 2mM DTT, 150mM NaCl, 10% Glycerol, pH 7.5.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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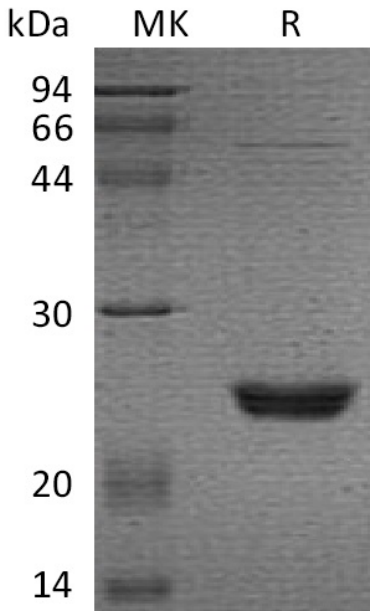

Alternative Names

NEDD8-conjugating enzyme Ubc12; NEDD8 carrier protein; NEDD8 protein ligase; Ubiquitin-conjugating enzyme E2 M; UBC12; UBE2M;

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.

Note

For Research Use Only , Not for Diagnostic Use.