

Product Name: UBE2M

Alternate Names: Ubc12

Product Code: TE2-011

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant NEDD8 Conjugating Enzyme E2 M accepts activated NEDD8 from NEDD8 Activating Enzyme 1 (an E1) in *in vitro* reactions. This charged E2 may subsequently transfer NEDD8 to a protein substrate in an E3 Ligase-catalyzed reaction. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: Human

Predicted MW (kDa): 21 kDa

Source: *E. coli* BL21(DE3) A.I.

Purity: 95 %

Tag: Untagged

Formulation: 40 mM HEPES, 200 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.0

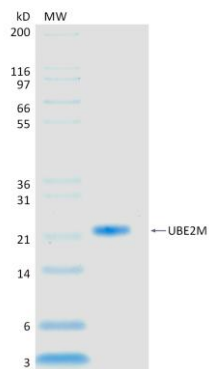
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: NEDD8-conjugating enzyme Ubc12



2 µg UBE2M run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in NEDD8 Charging Assay.

Background

Description

NEDD8 Conjugating Enzyme E2 M is a NEDD8-conjugating enzyme (E2) that plays a key role in the ubiquitylation pathway. It works with NAE1-UBA3 E1 complex to transfer NEDD8 to substrate proteins, primarily cullin E3 ligases.

Accession Number: P61081

Entrez Gene ID: UBE2M

Protein Sequence

```

GPGSMIKLFSLKQQKKEEESAGGTKGSSKKASAAQLRIQKDINELNLPKTCDISFSDPDDLNLN
FKLVICPDEGFYKSGKFVFSFKVGQGYPHDPPKVKCETMVYHPNIDLEGNVCLNILREDWKPV
LTINSIIYGLQYLFLEPNPEDPLNKEAAEVLQNNRRLFEQNVQQRSMRGGYIGSTYFERCLK
  
```