

**Product Name:** UBE2M

**Alternate Names:** Ubc12

**Product Code:** TE2-011

**Quantity:** 100 µg

**FOR RESEARCH USE ONLY (RUO)**

**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).

**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:**

**Predicted MW (kDa):** 21 kDa

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

**Purity:** 95%

**Concentration:** 50 µM

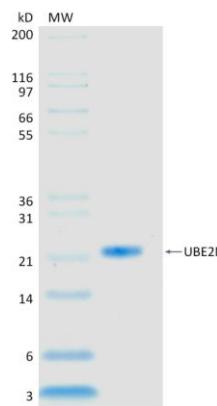
**Formulation:** 40 mM HEPES, 200 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.0

**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



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 UBA3-NAE1 E1 complex to transfer NEDD8 to substrate proteins, primarily cullin E3 ligases.

**Accession Number:**

**Entrez Gene ID:**

## Protein Sequence

GPGSMIKLFSLKQQKKEEESAGGTKGSSKKASAAQLRIQKDINELNLPK  
TCDISFSDPDDLLNFKLVICPDEGFYKSGKFVFSFKVGQGYPHDPPKVK  
CETMVYHPNIDLEGNVCLNILREDWKPVLTINSIIYGLQYLFLEPNPEDPL  
NKEAAEVLQNNRRLFEQNVQRSMRGGYIGSTYFERCLK