

## UBE2M Human

**Description:**UBE2M Human Recombinant produced E. coli is a single polypeptide chain containing 207 amino acids (1-183) and having a molecular mass of 23.5kDa.UBE2M is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:**ENPS-352

For research use only.

**Synonyms:**NEDD8-conjugating enzyme Ubc12, Ubiquitin-conjugating enzyme E2 M, NEDD8 protein ligase, NEDD8 carrier protein, UBC12, hUbc12, UBC-RS2.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHMIKLS LKQQKKEES  
AGGKGGSSKK ASAAQLRIQK DINELNLPKT CDISFSDPDD LLNFKLVICP DEGFYKSGKF  
VFSFKVGGQY PHDPPKVKE TMVYHPNIDL EGNVCLNLR EDWKPVLTIN SIYGLQYLF  
LEPNPEDPLN KEAAEVLQNN RRLFEQNVQR SMRGGYIGST YFERCLK

**Purity:**Greater than 95% as determined by SDS-PAGE.

### Formulation:

The UBE2M solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 1mM DTT and 20% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

UbcH12 is functional in in vitro NEDDylation reactions. It has been shown to form a thioester linkage with NEDD8 in the presence of the NEDD8 activating enzyme complex Uba3/APP-BP1. APP-BP1 binds to the amyloid precursor protein (APP) carboxy terminal domain and is important in conjunction with Uba3 and UbcH12 in driving cells through the S to M checkpoint. It was demonstrated to be the E2 responsible for the NEDDylation of the Cul-1 component of the SCF (-TRCP) complex which is important as the E3-ligase in the ubiquitinylation of I $\kappa$ B. NEDDylation of Cul-1 is essential for conjugation and processing of NF- $\kappa$ B p105 by SCF (-TRCP) following phosphorylation of the complex. A dominant negative form of UbcH12, previously demonstrated to sequester NEDD8 and inhibit its conjugation, inhibits both conjugation and processing of p105, which is alleviated by wild-type UbcH12.

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