

## 32-2897: UBE2M Recombinant Protein

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

### Description

Source : Escherichia Coli. 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. 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 $\beta$ B?. NEDDylation of Cul-1 is essential for conjugation and processing of NF- $\kappa$ B p105 by SCF 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.

### Product Info

<b>Amount :</b>	20 $\mu$ g
<b>Purification :</b>	Greater than 95% as determined by SDS-PAGE.
<b>Content :</b>	The UBE2M solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 1mM DTT and 20% glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MGSHMIKLFS LKQQKKEEES AGGTKGSSKK ASAAQLRIQK DINELNLPKT CDISFSDPDD LLNFKLVICP DEGFYKSGKF VFSFKVGQGY PHDPPKVKCE TMVYHPNIDL EGNVCLNLR EDWKPVLTIN SIIYGLQYLF LEPNPEDPLN KEAAEVLQNN RRLFEQNVQR SMRGGYIGST YFERCLK

