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UBE2M Human

Catalog #:ENPS-352

For research use only.

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.

Synonyms:NEDD8-conjµgating enzyme Ubc12, Ubiquitin-conjµgating 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 MGSHMIKLFS LKQQKKEEES AGGTKGSSKK ASAAQLRIQK DINELNLPKT CDISFSDPDD LLNFKLVICP DEGFYKSGKF VFSFKVGQGY PHDPPKVKCE TMVYHPNIDL EGNVCLNILR EDWKPVLTIN SIIYGLQYLF 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 drµgs,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 throµgh 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 IB. NEDDylation of Cul-1 is essential for conjµgation and processing of NF-B p105 by SCF (-TRCP) following phosphorylation of the complex. A dominant negative form of UbcH12, previously demonstrated to sequester NEDD8 and inhibit its conjµgation, inhibits both conjµgation and processing of p105, which is alleviated by wild-type UbcH12.

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