

Recombinant human Ubc12/UBE2M protein

Catalog Number: ATGP1603

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-183aa

UniProt No.

P61081

NCBI Accession No.

NP_003960

Alternative Names

NEDD8-conjugating enzyme Ubc12, NEDD8 carrier protein, Ubiquitin-conjugating enzyme E2 M, Homologous to yeast UBC12, Ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast), hUbc12, UBC12

PRODUCT SPECIFICATION

Molecular Weight

23.5 kDa (207aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.2M NaCl, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

uBE2M, also known as NEDD8-conjugating enzyme ubc12, belongs to the ubiquitin-conjugating enzyme family. The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. The encoded protein is linked with a ubiquitin-like

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protein, NEDD8, which can be conjugated to cellular proteins, such as Cdc53/culin. Recombinant human uBE2M protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSHEIKLFS LKQKKEEES AGGTRGSSKK ASAAQLRIQK DINELNLPKT CDISFSDPDD
LLNFKLVICP DEGFYKSGKF VFSFKVGQGY PHDPPKVKCE TMVYHPNIDL EGNVCLNLR EDWKPVLIN SIYGLQYLF
LEPNPEDPLN KEAAEVLQNN RRLFEQNVQR SMRGGYIGST YFERCLK

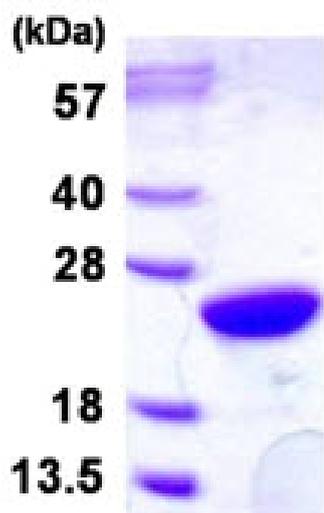
General References

Gong L., et al. (1999) J. Biol. Chem. 274:12036-12042

Huang D.T., et al. (2004) Nat. Struct. Mol. Biol. 11:927-935

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)