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

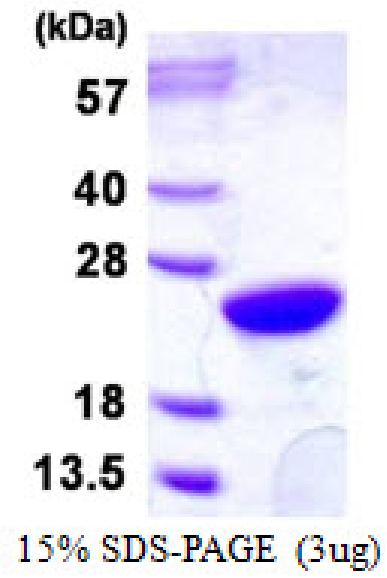
MGSSHHHHHH SSGLVPRGSH MGSHMIKLFS LKQQKKEEES AGGTKGSSKK ASAAQLRIQK DINELNLPKT CDISFSDPDD LLNFKLVICP DEGFYKSGKF VFSFKVGQGY PHDPPKVKCE TMVYHPNIDL EGNVCLNILR EDWKPVLTIN SIIYGLQYLF LEPNPEDPLN KEAAEVLQNN RRLFEQNVQR SMRGGYIGST YFERCLK

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



15% SDS-PAGE (3ug)

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