Recombinant human UBCH9/UBE2E3 protein

Catalog Number: ATGP3132

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-207aa

UniProt No.
Q969T4

NCBI Accession No.
NP_006348

Alternative Names
Ubiquitin-conjugating enzyme E2 E3, E2 ubiquitin-conjugating enzyme E3, UbcH9, Ubiquitin carrier protein E3, Ubiquitin-conjugating enzyme E2-23 kDa, Ubiquitin-protein ligase E3, UBCE4

PRODUCT SPECIFICATION

Molecular Weight
25.3 kDa (230aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity
> 80% 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
UBE2E3 also known as Ubiquitin-conjugating enzyme E2 E3 is a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for the destruction of mitotic cyclins and for cell cycle progression. The ubiquitination process covalently attaches ubiquitin, a short protein of 76 amino acids, to a lysine residue on the target protein. Once a protein has been tagged with one ubiquitin molecule, additional rounds of ubiquitination form a polyubiquitin chain that is recognized by the proteasome's 19S regulatory particle, triggering the ATP-

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dependent unfolding of the target protein that allows passage into the proteasome's 20S core particle, where proteases degrade the target into short peptide fragments for recycling by the cell. Recombinant human UBE2E3, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

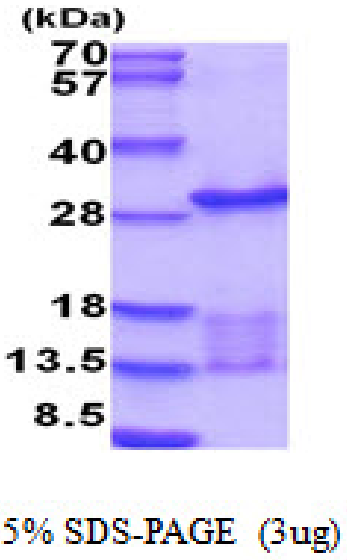
MGSSHHHHHH SSGLVPRGSH MGSMSSDRQR SDDESPSTSS GSSDADQRDP AAPEPEEQEE RKPSATQQKK NTKLSSKTTA KLSTSAKRIQ KELAEITLDP PPNCSAGPKG DNIYEWRSTI LGPPGSVYEG GVFFLDITFS SDYPFKPPKV TFRTRIYHCN INSQGVICLD ILKDNWSPAL TISKVLLSIC SLLTDCNPAD PLVGSIATQY LTNRAEHDRI ARQWTKRYAT

General References

Nandi, D., et al. (2006) Journal of biosciences 31 (1): 137-55.
Risseeuw, EP., et al. (2003) cell and molecular biology 34 (6): 753-6.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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