## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-149aa

## UniProt No.

P61077

## NCBI Accession No.

NP_871622

## Alternative Names

Ubiquitin-conjugating enzyme E2 D3, E2 ubiquitin-conjugating enzyme D3, Ubiquitin carrier protein D3, Ubiquitinconjugating enzyme E2(17)KB 3, Ubiquitin-conjugating enzyme E2-17 kDa 3, Ubiquitin-protein ligase D3, UBC5C, UBCH5C

## PRODUCT SPECIFICATION

## Molecular Weight

19 kDa (169aa) confirmed by MALDI-TOF

## Concentration

$0.25 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer ( pH 8.0 ) containing $40 \%$ glycerol, $0.15 \mathrm{M} \mathrm{NaCl}, 1 \mathrm{mM}$ DTT

## Purity

> 90\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

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

## BACKGROUND

## Description

UBE2D3, also known as ubiquitin-conjugating enzyme E2 D3. 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 enzyme functions in the ubiquitination of the tumor-suppressor
protein p53, which is induced by an E3 ubiquitin-protein ligase. Recombinant human UBE2D3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MLSNRKCLSK ELSDLARDPP AQCSAGPVGD DMFHWQATIM GPNDSPYQGG VFFLTIHFPT DYPFKPPKVA FTTRIYHPNI NSNGSICLDI LRSQWSPALT ISKVLLSICS LLCDPNPDDP LVPEIARIYK TDRDKYNRIS REWTQKYAM

## General References

Gonen H., et al. (1999) J. Biol. Chem. 274:14823-14830
Murata S., et al. (2001) EMBO Rep. 2:1133-1138

## DATA

## SDS-PAGE



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

