

# Recombinant human Ubch5a/UBE2D1 protein

Catalog Number: ATGP1074

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-147aa

**UniProt No.**

P51668

**NCBI Accession No.**

NP\_003329

**Alternative Names**

Ubiquitin conjugating enzyme E2 D1, SFT, Stimulator of Fe transport, Ubiquitin-conjugating enzyme E2D 1, "UBC4/5 homolog, yeast", Ubch5A, UBCH5, UBC4/5, E2(17)KB1

## PRODUCT SPECIFICATION

**Molecular Weight**

19 kDa (170aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.1M NaCl

**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**

uBE2D1 belongs to the ubiquitin-conjugating enzyme family. 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. uBE2D1 is closely related to a stimulator of iron transport (SFT), and is up-regulated in hereditary hemochromatosis. It also functions in the ubiquitination of the tumor-suppressor protein p53 and the hypoxia-inducible transcription factor

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HIF1alpha by interacting with the E1 ubiquitin-activating enzyme and the E3 ubiquitin-protein ligases. Recombinant human uBE2D1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMALKRIQ KELSDLQRDP PAHCSAGPVG DDLFHWQATI MGPPDSAYQG  
GVFFLT VHFP TDYPFKPPKI AFTTKIYHPN INSNGSICLD ILRSQWSPAL TVSKVLLSIC SLLCDPNPDD PLVPDIAQIY  
KSDKEKYNRH AREWTQKYAM

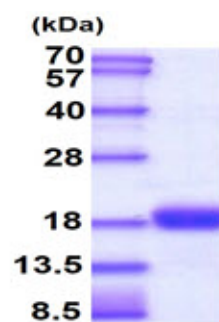
## General References

Windheim M., et al. (2008) Biochem. J. 409:723-729

Pabarcus M.K., et al. (2009) Arch. Biochem. Biophys 483:66-74

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

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