

Recombinant Human ubiquitin-conjugating enzyme E2D 1, His-tagged

Cat. No. UBE2D1-695H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UBE2D1, 1-147aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-147 a.a.
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 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.1M NaCl
Molecular Mass	19.0 kDa (170aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMALKRIQ KELSDLQRDP PAHCSAGPVG

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DDLFWQATI MGPPDSAYQG GVFFLTVHFP TDYPPKPPKI AFTTKIYHPN
 INSNGSICLD ILRSQWSPAL TVSKVLLSIC SLLCDPNPDD PLVPDIAQIY
 KSDKEKYNRH AREWTQKYAM

Purity >95% by SDS - PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [UBE2D1 ubiquitin-conjugating enzyme E2D 1 \[Homo sapiens \]](#)

Official Symbol UBE2D1

Synonyms UBE2D1; ubiquitin-conjugating enzyme E2D 1; SFT, stimulator of Fe transport , ubiquitin conjugating enzyme E2D 1 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2 D1; E2(17)KB1; UBC4/5; UBCH5; Ubch5A; UBC4/5 homolog; stimulator of Fe transport; ubiquitin-protein ligase D1; ubiquitin carrier protein D1; ubiquitin-conjugating enzyme E2(17)KB 1; ubiquitin-conjugating enzyme E2-17 kDa 1; ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast); SFT; UBCH5A;

Gene ID [7321](#)

mRNA Refseq [NM_001204880](#)

Protein Refseq [NP_001191809](#)

MIM [602961](#)

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UniProt ID	P51668
Chromosome Location	10q21.1
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Cyclin B, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem;
Function	ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; protein binding; ubiquitin-protein ligase activity;