

Recombinant Human UBE2D1, His-tagged

Cat. No. UBE2D1-31646TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human UBE2D1 with N-terminal His tag; amino acids 2-147, 17 kDa.
Description	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. This enzyme 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. Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Source	<i>E. coli</i>
Tissue specificity	Ubiquitous. Up-regulated in livers of iron-overloaded patients with hereditary hemochromatosis.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the ubiquitin-conjugating enzyme family.
Protein length	2-147
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;
Gene ID	7321
mRNA Refseq	NM_001204880
Protein Refseq	NP_001191809
MIM	602961
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;

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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;

Function

ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; protein binding;