

Recombinant Human UBE2D1 protein, GST-tagged

Cat. No. UBE2D1-005H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBE2D1 fused with GST tag at N-terminal was expressed in E.coli.
Species	Human
Source	E.coli
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.
Form	Lyophilized from a 0.2 M filtered solution of 50mM HEPES,150mM NaCl,2mM DTT,10% Glycerin pH7.5
Molecular Mass	42.9kD
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMARIYIADKHNMMLGGCPKERAIEISMLEGAVLDIRYGVSR IAYSKDFE

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TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA
FPKLVCFKKRIEAIQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSMAL
KRIQKELSDLQRDPPAHCSAGPVGDD

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name UBE2D1 ubiquitin conjugating enzyme E2 D1 [Homo sapiens (human)]

Official Symbol UBE2D1

Synonyms SFT; UBCH5; UBC4/5; UBCH5A; E2(17)KB1;UBE2D1;

Gene ID 7321

mRNA Refseq NM_003338

Protein Refseq NP_003329

MIM 602961

UniProt ID P51668

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