

Active Recombinant Full Length Human ubiquitin conjugating enzyme E2 D1 Protein, Tag Free

Cat. No. UBE2D1-02HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant full length human ubiquitin conjugating enzyme E2 D1 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-147aa
Description	Ubiquitin-conjugating Enzyme H5a (UbcH5a), also known as Ubiquitin-conjugating Enzyme E2D 1 (UBE2D1), is a ubiquitously expressed protein that is related to Stimulator of Iron Transport (SFT). Human UbcH5a/UBE2D1 has a predicted molecular weight of 17 kDa and shares 89% and 88% amino acid (aa) sequence identity with the related family members UbcH5b and UbcH5c, respectively. Human UbcH5a/UBE2D1 shares 100% aa sequence identity with the mouse and rat orthologs. UbcH5a/UBE2D1 has a conserved E2 catalytic core domain that contains an active site cysteine residue, and it interacts with a variety of HECT and RING finger Ubiquitin ligases (E3) to mediate the ubiquitination of specific target proteins). UbcH5a/UBE2D1 interacts with the E3, E6-AP, to conjugate Ubiquitin to the tumor suppressor, p53. Additional protein targets of UbcH5a/UBE2D1 include c-Fos, RIP1, and HIF-1. Pathologically, UbcH5a/UBE2D1 is implicated in protein degradation during cancer and immune responses.

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Tag	Non
Bio-activity	Recombinant Human Ubch5a/UBE2D1 is a member of the Ubiquitin-conjugating (E2) enzyme family that receives Ubiquitin from a Ubiquitinactivating (E1) enzyme and subsequently interacts with a Ubiquitin ligase (E3) to conjugate Ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human Ubch5a/UBE2D1 concentration of 0.1-1 μ M.
Molecular Mass	17 kDa
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain.
Storage	Store the unopened product at -70 centigrade. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Do not use past expiration date.
Storage Buffer	Supplied as a solution in HEPES, NaCl, TCEP and Glycerol.
Shipping	The product is shipped with dry ice or equivalent.
References	1. Scheffner, M. et al. (1994) Proc. Natl. Acad. Sci. USA 91:8797. 2. Gehrke, S. et al. (2003) Blood 101:3288. 3. Jensen, J. et al. (1995) J. Biol. Chem. 270:30408.

GENE INFORMATION

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

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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
UniProt ID	P51668