

Active Recombinant Full Length Human/Mouse/Rat ubiquitin conjugating enzyme E2 D3 Protein, Tag Free

Cat. No. UBE2D3-13HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant full length Human/Mouse/Rat ubiquitin conjugating enzyme E2 D3 Protein without tag was expressed in E. coli.
Species	Human/Mouse/Rat
Source	E.coli
ProteinLength	1-147aa
Description	Ubiquitin-conjugating Enzyme H5c (UbcH5c), also known as Ubiquitin-conjugating Enzyme E2D 3 (UBE2D3), is a member of the yeast Ubc4/5 family of Ubiquitin-conjugating (E2) enzymes. Human UbcH5c/UBE2D3 has a predicted molecular weight of 17 kDa and shares 88% and 89% amino acid sequence identity with the related family members, UbcH5a and UbcH5b, respectively. In combination with Ubiquitin ligases (E3s) such as CHIP, UbcH5c/UBE2D3 mediates the ubiquitination and subsequent degradation of several regulatory proteins. For instance, UbcH5c/UBE2D3 is involved in the poly-ubiquitination and proteasome-mediated degradation of the Nuclear Factor kappaB (NF-kappaB) inhibitor, IkappaB-alpha, and is implicated in NF-kappaB-dependent inflammation. UbcH5c/UBE2D3 also mediates the ubiquitination of Histone H2A and PCNA, suggesting that it functions during transcriptional regulation, DNA replication, and DNA damage responses.
Tag	Non

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Bio-activity	Recombinant Human UbchH5c/UBE2D3 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 UbchH5c/UBE2D3 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. Page, R.C. et al. (2012) Biochemistry 51:4175. 2. Gonen, H. et al. (1999) J. Biol. Chem. 274:14823. 3. Shembade, N. et al. (2010) Science 327:1135.

GENE INFORMATION

Gene Name	UBE2D3 ubiquitin conjugating enzyme E2 D3 [Homo sapiens (human)]
Official Symbol	UBE2D3
Synonyms	UBE2D3; ubiquitin-conjugating enzyme E2D 3; ubiquitin conjugating enzyme E2D 3 (homologous to yeast UBC4/5) , ubiquitin conjugating enzyme E2D 3 (UBC4/5

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homolog, yeast); ubiquitin-conjugating enzyme E2 D3; Ubch5C; E2(17)KB 3; ubiquitin-protein ligase D3; ubiquitin carrier protein D3; ubiquitin-conjugating enzyme E2(17)KB 3; ubiquitin-conjugating enzyme E2-17 kDa 3; ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5); UBC4/5; UBCH5C; E2(17)KB3; MGC5416; MGC43926

Gene ID	7323
mRNA Refseq	NM_003340
Protein Refseq	NP_003331
MIM	602963
UniProt ID	P61077