Active Recombinant Human UBE2H Protein, Tag Free

Cat. No. UBE2H-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human UBE2H Protein without tag was expressed in E. coli
Species	Human
Source	E. coli
Description	UBE2H is a ubiquitin-conjugating enzyme (E2) that works with E3 ubiquitin ligases to catalyze the transfer of ubiquitin onto target proteins, directing them toward regulated turnover or functional modification. It participates in ubiquitin-dependent proteasomal degradation and has been implicated in pathways controlling protein homeostasis and cell fate decisions. UBE2H interacts with multiple RING-type E3 ligases and supports the formation of ubiquitin chains on selected substrates. Through these activities, it contributes to the regulation of cellular stress responses, apoptosis, and signaling networks. Dysregulation of UBE2H activity may disrupt normal ubiquitination dynamics, leading to altered protein stability and impaired cellular homeostasis.
Form	40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6
Bio-activity	Verified in Ubiquitin Charging Assay.
Molecular Mass	20 kDa
AASequence	GPMSSPSPGKRRMDTDVVKLIESKHEVTILGGLNEFVVKFYGPQGTPYEGGVWKVR VDLPDKYPFKSPSIGFMNKIFHPNIDEASGTVCLDVINQTWTALYDLTNIFESFLPQLL AYPNPIDPLNGDAAAMYLHRPEEYKQKIKEYIQKYATEEALKEQEEGTGDSSSESSM

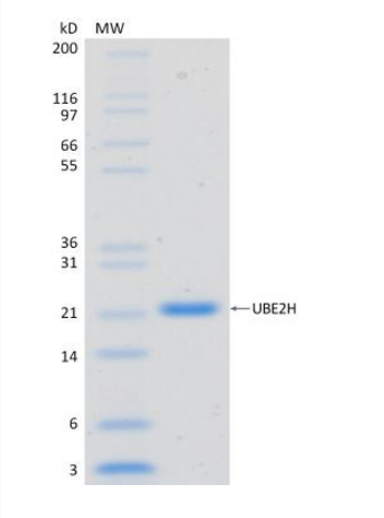
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	SDFSEDEAQDMEL
Purity	0.95
Applications	Recombinant Ubiquitin Conjugating Enzyme E2 H accepts activated ubiquitin from Ubiquitin Activating Enzyme 1 (an E1) in in vitro reactions. This charged E2 may subsequently transfer ubiquitin to a protein substrate in an E3 Ligase-catalyzed reaction. Appropriate enzyme concentrations are specific to the application.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70 centigrade (stable for 24 months from date of receipt).
Concentration	50 μM
Reference	1. Gronau T., et al. (2023) Molecular Cell 83:1-15. doi: 10.1016 / j.molcel.2023.11.027 2. David Y., et al. (2010) Journal of Biological Chemistry 285(12):8595-8604. doi: 10.1074 / jbc.M109.089003 PMID 20061386 3. Kaiser P., et al. (1995) FEBS Letters 377(2):193-196. doi: 10.1016 / 0014-5793(95)01323-7 PMID 8543049

GENE INFORMATION

Gene Name	UBE2H ubiquitin-conjugating enzyme E2H [Homo sapiens (human)]
Official Symbol	UBE2H
Synonyms	UBE2H; ubiquitin-conjugating enzyme E2H; ubiquitin conjugating enzyme E2H (homologous to yeast UBC8), ubiquitin conjugating enzyme E2H (UBC8 homolog, yeast); ubiquitin-conjugating enzyme E2 H; UBC8; UBCH; ubiquitin-protein ligase H; ubiquitin carrier protein H; ubiquitin-conjugating enzyme E2-20K; ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast); ubiquitin-conjugating enzyme E2H (homologous to yeast UBC8); UBCH2; E2-20K;

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Gene ID	7328
mRNA Refseq	NM_001202498
Protein Refseq	NP_001189427
MIM	601082
UniProt ID	P62256
SDS-PAGE	

2 μg UBE2H run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

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