

Product Name: UBE2D1

Alternate Names: UbcH5a, UBCH5A

Product Code: TE2-002

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant Ubiquitin Conjugating Enzyme E2 D1 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.

Physical Characteristics

Species: Human

Predicted MW (kDa): 17 kDa

Source: *E. coli* BL21(DE3) A.I.

Purity: 95 %

Tag: N/A

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

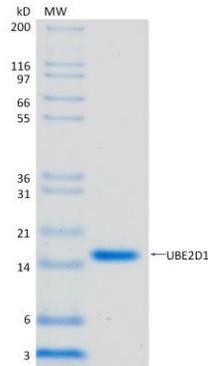
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: Ubiquitin-conjugating enzyme E2 D1



2 µg UBE2D1 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ubiquitin Charging Assay.

Background

Description

Ubiquitin Conjugating Enzyme E2 D1 is a ubiquitin-conjugating enzyme (E2) that plays a key role in the ubiquitylation pathway. It works with various E3 ligases to transfer ubiquitin to substrate proteins, tagging them for proteasomal degradation or otherwise regulating their function. Owing to its broad E3 compatibility and robust kinetics, recombinant UBE2D1 is a staple reagent for *in vitro* ubiquitylation assays.

Accession Number: P51668

Entrez Gene ID: UBE2D1

Protein Sequence

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GPGSMALKRIQKELSDLQRDPPAHCSAGPVGDDLFWQATIMGPPDSAYQGGVFFLTVHFPTD  
YPFKPPKIAFTTKIYHPNINSNGSICLDILRSQWSPALTVSKVLLSICSLLCDPNPDDPLVPD  
IAQIYKSDKEKYNRHAREWTQKYAM
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