

Product Name: UBE2R1

Alternate Names: E2-32K, CDC34

Product Code: TE2-012

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant Ubiquitin Conjugating Enzyme E2 R1 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): 27 kDa

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

Purity: 95 %

Tag: Untagged

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

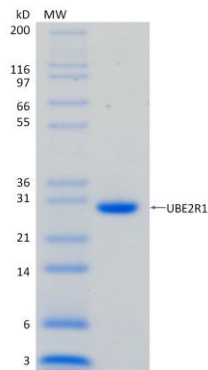
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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 R1



2 µg UBE2R1 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 R1 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.

Accession Number: UBE2R1

Entrez Gene ID: P49427

Protein Sequence

GPGSMARPLVPSSQKALLLELKGLQEEPVEGFRVTLVDEGDLYNWEVAIFGPPNTYYEGGYFK
 ARLKFPIIDYPYSPPAFRFLTKMWHPNIIYETGDVCISILHPPVDDPQSGELPSEWRNPTQNVRT
 ILLSVISLLNEPNTFSPANVDASVMYRKWKESKSKGDREYTDIIRKQVLGTVDAERDGVKVPT
 TLAEYCVKTKAPAPDEGSDLFYDDYYEDGEVEEEEADSCFGDDEDDSGTEES