

**Product Name:** UBE2R1

**Alternate Names:** E2-32K, CDC34

**Product Code:** TE2-012

**Quantity:** 100 µg

**FOR RESEARCH USE ONLY (RUO)**

**Storage:**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

**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:**

**Predicted MW (kDa):** 27 kDa

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

**Purity:** 95%

**Concentration:** 50 µM

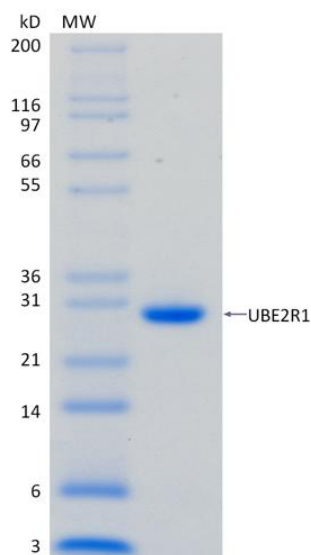
**Formulation:** 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

**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 ≤ -70°C (stable for 24 months from date of receipt).

## Quality Assurance

### Purity & SDS-PAGE



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:**

**Entrez Gene ID:**

### Protein Sequence

GPGSMARPLVPSSQKALLLELKGLQEPPVEGFRVTLVDEGDLYNWEVAI  
FGPPNTYYEGGYFKARLKFPIDYPYSPPAFRFLTKMWHPNIIYETGDVCI  
SILHPPVDDPQSGELPSEWRNPTQNVRTILLSVISLLNEPNTFSPANVDA  
SVMYRKWKESKGKDREYTDIIRKQVLGTVDAERDGVKVPTTLAEYCV  
KTKAPAPDEGSDLFYDDYYEDGEVEEEEADSCFGDDEDDSGTEES