

Product Name: UBE2G1

Alternate Names: Ubc7, E2-17K

Product Code: TE2-006

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant Ubiquitin Conjugating Enzyme E2 G1 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): 20 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

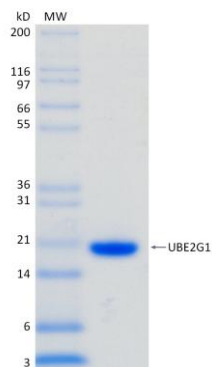
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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 G1



2 µg UBE2G1 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 G1 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: P62253

Entrez Gene ID: UBE2G1

Protein Sequence

GP G S M T E L Q S A L L L R R Q L A E L N K N P V E G F S A G L I D D N D L Y R W E V L I I G P P D T L Y E G G V F K A H L
T F P K D Y P L R P P K M K F I T E I W H P N V D K N G D V C I S I L H E P G E D K Y G Y E K P E E R W L P I H T V E T I M I
S V I S M L A D P N G D S P A N V D A A K E W R E D R N G E F K R K V A R C V R K S Q E T A F E