

Product Name: UBE2V1/UBE2N

Alternate Names: Uev1a/Ubc13, Uev1a/UbcH13

Product Code: TE2-013

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 2V1/2N 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: Homo sapiens (Human)

Predicted MW (kDa): 16.8 kDa (UBE2V1) / 17.4 kDa (UBE2N)

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

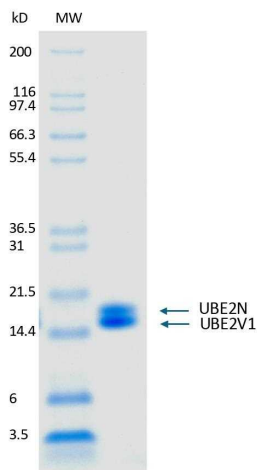
Shipping: The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

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

Protein ID: Ubiquitin-conjugating enzyme E2 N; Ubiquitin-conjugating enzyme E2 variant 1



2 µg UBE2V1/UBE2N 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 Variant 1 and Ubiquitin-Conjugating Enzyme E2 N function together as a heterodimer. This complex catalyzes the synthesis of poly-ubiquitin chains linked through lysine 63 (K63) of ubiquitin. Lys63-linked chains are important in signaling pathways related to DNA repair, stress response, and immune signaling, rather than tagging proteins for degradation by the proteasome. Recombinant UBE2V1/UBE2N is an important reagent for in vitro ubiquitylation assays related to K63-linked poly-ubiquitin.

Accession Number:
P61088;Q13404

Entrez Gene ID:
UBE2N;UBE2V1

Protein Sequence

GPGSMAATTGSGVKVPRNFRLLLEELEEGQKGVGDGTVSWGLEDDED
MTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYPEAPPFVRFVTKINMNG
VNSSNGVVDPRASVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPP
EGQCYSN;GPGSMAGLPRRIKETQRLLAEPVPGIKAEPDESNARYFHV
VIAGPQDSPFEGGTFKLELFLPEEYPMAAPKVRFMTKIYHPNVDKLGRI
CLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVAEQWKTNEAQ
AIETARAWTRLYAMNNI