Product Name: UBE3C

Alternate Names: HECTH2, RAUL, Ubiquitin-protein ligase E3C

Product Code: TE3-066

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

In vitro, recombinant UBE3C accepts activated ubiquitin from E2 conjugating enzymes UBE2D1 or UBE2L3 in a reaction that also requires Ubiquitin Activating Enzyme 1 (an E1). The charged E3 demonstrates strong autoubiquitylation in the absence of added substrates. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: Human

Predicted MW (kDa): 58 kDa

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

Purity: 95 %

Tag: N-His_6-3C-SUMO

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

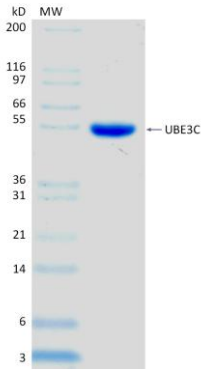
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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

Protein ID: Ubiquitin-protein ligase E3C



2 µg UBE3C run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Polyubiquitin Chain Synthesis Assay.

Background

Description

Recombinant human UBE3C is a HECT-type E3 that generates mainly K29- and K48-linked polyubiquitin chains. This recombinant protein consists of the UBE3C HECT domain (aa 693-1083) and contains an N-terminal His_6-3C-SUMO tag.

Accession Number: Q15386

Entrez Gene ID: UBE3C

Protein Sequence

MGGSHHHHHHGSLEVLFQGPGSMSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFKVKMT
THLKKLKESYCQRQGVPMNSLRFLFEGQRIADNHTPKELGMEEEDVIEVYQEQTGGVPFEERV
KIFQRLIYADKQEVQGDGPFLDGINVTIRRNYIYEDAYDKLSPENEPDLKKRIRVHLLNAHGL
DEAGIDGGGIFREFLNELLKSGFNPNQGFFKTTNEGLLYPNPAAQMLVGDSFARHYYFLGRML
GKALYENMLVELPFAGFFLSKLLGTSADVDIHHLASLDPEVYKNLLFLKSYEDDVEELGLNFT
VVNNDLGEAQVVELKFGGKDIPVTSANRIAYIHLVADYRLNRQIRQHCLAFRQGLANVVSLEW
LRMFDQQEIQVLISGAQVPISLEDLKSFTNYSGGYSADHPVIKVFWRVVEGFTDEEKRKLLKF
VTSCSRPPLLGFKELYPAFCIHNGGSDLERLPTASTCMNLLKLPEFYDETLLRSKLLYAIECA
AGFELS