

Product Name: KLHDC2 / EloB / EloC

Alternate Names: HCA33

Product Code: TE3-137

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

This recombinant KLHDC2 / EloB / EloC complex has been functionally validated in a CUL2-dependent ubiquitylation assay using a SELK peptide substrate.

Physical Characteristics

Species: Human

Predicted MW (kDa):

KLHDC2: 50 kDa

EloB: 13 kDa

EloC: 12 kDa

Source: Sf9 (*S. frugiperda*)

Purity: 90 %

Tags:

KLHDC2: N-Strep II-His₈-3C

EloB: Untagged

EloC: Untagged

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 2 mM TCEP, pH 7.6

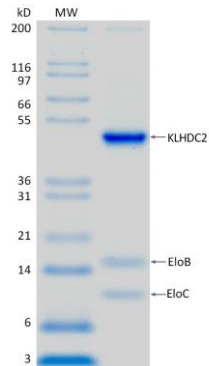
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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: Elongin-B
 Elongin-C
 Kelch domain-containing protein 2



2 µg KLHDC2 / EloB / EloC run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ubiquitylation Assay with SELK peptide.

Background

Description

The recombinant KLHDC2 / EloB / EloC complex is the substrate recognition module of the CUL2-RBX1 E3 ubiquitin ligase that mediates selective recognition of C-terminal degron motifs through the C-degron pathway. It is well suited for *in vitro* ubiquitylation assays, degron-binding studies, structural biology, and targeted protein degradation research.

Accession Number: Q9Y2U9

Entrez Gene ID: KLHDC2

Accession Number: Q15370

Entrez Gene ID: EloB

Accession Number: Q15369

Entrez Gene ID: EloC

Protein Sequence

KLHDC2:

MGWSPQFEKGSHHHHHHHGSLEVLFGQPGSSMADGNEDLRADDLPGPAFESYESMELACPA
ERSGHVAVSDGRHMFVWGGYKSNQVRGLYDFYLPREELWIYNMETGRWKKINTEGDVPPSMG
SCAVCVDRVLYLFGGHHSRGNTNKFYMLDSRSTDRVLQWERIDCQGIPSSKDKLGVWVYKNK
LIFFGGYGYPEDKVLGTFFEDTSFWNSSHPRGWNDHVHILDTETFTWSQPITTGKAPSPRA
AHACATVGNRGFVFGGRYRDARMNDLHYLNLDTEWNEELIPQGICPVGRSWHSLTPVSSDHLF
LFGGFTTDKQPLSDAWTYCISKNEWIQFNHPYTEKPRWLWHTACASDEGEVIVFGGCANNLLVH
HRAAHSNEILIFSVQPKSLVRLSLEAVICFKEMLANSWNCLPKHLLHSVNQRFGSNNTSGS

EloB:

MDVFLMIRRHKTTIFTDAKESSTVFELKRIVEGILKRPPDEQRLYKDDQLLDDGKTLGECGFT
SQTARPQAPATVGLAFRADDTEALCIEPFSSPELPDVMKPQDSGSSANEQAVQ

EloC:

MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSGPGQFAENETNEVNFR
EIPSHVLSKVCMYFTYKVRYTNSSTEIPEFPPIAPEIALELLMAANFLDC