Product Name: VHL / ELOB / ELOC

Alternate Names: von Hippel-Lindau, Elongin-B, Elongin-C

Product Code: TE3-019

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

VHL / ELOB / ELOC is active in ternary complex formation assays using recombinant BRD4 and the degrader molecule MZ1.

Physical Characteristics

Species: Human

Predicted MW (kDa): VHL: 27 kDa
ELOB: 13 kDa
ELOC: 12 kDa

Source: Sf9 (*S. frugiperda*)

Purity: 95 %

Tags: VHL: N-His$_8$-3C
ELOB: N/A
ELOC: N/A

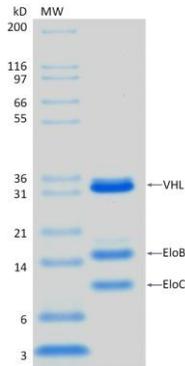**Formulation:** 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

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

Purity & SDS-PAGE

Protein ID: von Hippel-Lindau disease tumor suppressor, Elongin-B, Elongin-C

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

Activity Assay

Verified in Ternary Complex Assay.

Description

VHL is the substrate receptor of the CUL2-RING E3 ligase CRL2-VHL. Recombinant human VHL is co-purified as a stable heterotrimer with its adaptor proteins Elongin-B (ELOB) and Elongin-C (ELOC). When combined with recombinant CUL2/RBX1, this fusion is capable of ubiquitylating substrates *in vitro*. VHL has an N-terminal His_8-3C tag, while ELOB and ELOC are untagged.

Accession Number: P40337   **Entrez Gene ID:** VHL

Accession Number: Q15370   **Entrez Gene ID:** ELOB

Accession Number: Q15369   **Entrez Gene ID:** ELOC

Protein Sequences

VHL:
MGHHHHHHHGSGSLEVLFQGPGSMPRRAENWDEAEVGAEEAGVEEYGPEEDGGEESGAEESG
PEESGPEELGAEEEMEAGRPRPVLRSVNSREPSQVIFCNRSPRVVLPVWLNFDGEPQPYPTLP
PGTGRRIHSYRGHLWLFRDAGTHDGLLVNQTELFVPSLNVDGQPIFANITLPVYTLKERCLQV
VRSLVKPENYRRLDIVRSLYEDLEDHPNVQKDLERLTQERIAHQRMGD

ELOB:
MDVFLMIRRHKTTIFTDAKESSTVFELKRIVEGILKRPPDEQRLYKDDQLLDDGKTLGECGFT
SQTARPQAPATVGLAFRADDTFEALCIEPFSSPPELPDVMKPQDSGSSANEQAVQ

ELOC:
MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSGPGQFAENETNEVNFR
EIPSHVLSKVCMYFTYKVRYTNSSTEIPEFPIAPEIALELLMAANFLDC