

MATERIAL DATA SHEET

Recombinant Human ELOB/ELOC/VHL Complex

Cat. # E3-600

Together, Elongin B (ELOB) and Elongin C (ELOC) form a heterodimer that serves as the regulatory subunit for the Elongin complex--a general transcription elongation factor that increases RNA Polymerase II transcription through template-encoded arresting sites. The ELOB/ELOC complex also binds to the "BC-box motif" found in many proteins in the VHL-box and SOCS-box protein families. In this function, ELOB/ELOC serves as an adapter between substrate recognition proteins and either Cullin-2/Rbx1 (in VHL-box E3 Ubiquitin ligases) or Cullin-5/Rbx2 (in SOCS-box E3 Ubiquitin ligases). VHL (von Hippel-Lindau disease tumor suppressor) is the substrate recognition subunit for an E3 ligase activity that ubiquitinates proteins containing hydroxyproline residues. Targets of VHL include HIF1 α , β 2 adrenergic receptor, ZHX2 and others. This protein complex is untagged.

Product Information

Quantity:	50 μ g
MW:	24 kDa (VHL), 13.1 kDa (ELOB), 12.8 kDa (ELOC)
Source:	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human ELOB/ELOC/VHL Complex protein Accession # Q15370, Q15369, P40337
Stock:	X mg/ml (X μ M) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 2 mM DTT
Purity:	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

Use:	Typical protein concentration for use in vitro will depend on experimental conditions.
Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 24 months from date of receipt, -70 °C as supplied.• 6 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Kamura T., et al. (1998) Genes & Dev. doi:10.1101/gad.12.24.3872
2. Okumura F., et al. (2012) Front. Oncol. doi:10.3389/fonc.2012.00010
3. Xie L., et al. (2009) Sci. Signaling doi:10.1126/scisignal.2000444
4. Zhang J. et al. (2018) Science doi:10.1126/science.aap8411

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