

Lot # XXXXX

MATERIAL DATA SHEET

Elongin B/C-VHL Complex, *human recombinant* 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
Stock:	X mg/ml (X μ M) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 2 mM DTT
MW:	24 kDa (VHL), 13.1 kDa (ELOB), 12.8 kDa (ELOC)
Purity:	> 95% by SDS-PAGE by SDS-PAGE under reducing conditions and visualized with Colloidal Coomassie Blue Stain.

Use & Storage

Use:	Typical protein concentration for use <i>in vitro</i> will depend on experimental conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

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