

Lot # XXXXX

MATERIAL DATA SHEET

CUL4A/RBX1 Complex, *human recombinant* **Cat. # E3-440**

Cullin-4A (CUL4A) is a core component of multiple cullin-RING type E3 Ubiquitin ligase complexes that mediate the ubiquitination of proteins involved in cell cycle progression, DNA repair and other processes. In the DCX complex (DDB1-CUL4-X-box) CUL4A serves as a scaffold that organizes the DDB1-X-box recognition subunits with the RBX1 subunit and contributes to catalysis through positioning of the substrate and an E2 ubiquitin-conjugating enzyme. In vivo, the E3 ubiquitin ligase activity of the DCX complex is dependent on neddylation of the cullin subunit, though neddylation may be dispensable for some in vitro reactions. This complex consists of an N-terminal 10-His tagged CUL4A (UniProt Q13619) and untagged RBX1 (UniProt P62877).

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
MW:	95 kDa (CUL4A) + 12 kDa (RBX1)
Purity:	> 85% 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:	Fischer ES., <i>et al.</i> (2014) <i>Nature</i> 512 : 49 He Y.J., <i>et al.</i> (2006) <i>Genes Dev.</i> 20 : 2949 Ito T., <i>et al.</i> (2010) <i>Science</i> 327 : 1345 Wang H., <i>et al.</i> (2006) <i>Mol. Cell</i> 22 : 383
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