

Lot # XXXXX

## MATERIAL DATA SHEET

### CUL4A/RBX1/DDB1/CRBN, *human recombinant*

Cat. # E3-650

Cullin-4A (CUL4A) is a core component of multiple cullin-RING type 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 in some *in vitro* reactions. This complex consists of an N-terminal 10-His tagged, Cullin-4A (UniProt Q13619), untagged RBX1 (UniProt P62877), untagged DDB1 (UniProt Q16531) and untagged CRBN (UniProt Q96SW2)

#### Product Information

<b>Quantity:</b>	25 µg
<b>Stock:</b>	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
<b>MW:</b>	93 kDa (CUL4A), 12 kDa (RBX1), 127 kDa (DDB1), 51 kDa (CRBN)
<b>Purity:</b>	> 85% by SDS-PAGE by SDS-PAGE under reducing conditions and visualized with Colloidal Coomassie Blue Stain.

#### Use & Storage

<b>Use:</b>	Typical enzyme concentration to support conjugation <i>in vitro</i> will depend on experimental conditions.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

#### Literature

<b>References:</b>	Fischer ES., <i>et al.</i> (2014) <u>Nature</u> <b>512</b> : 49 He Y.J., <i>et al.</i> (2006) <u>Genes Dev.</u> <b>20</b> : 2949 Ito T., <i>et al.</i> (2010) <u>Science</u> <b>327</b> : 1345 Wang H., <i>et al.</i> (2006) <u>Mol. Cell</u> <b>22</b> : 383
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