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## MATERIAL DATA SHEET

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### Recombinant Human CUL4A/RBX1 Complex His-tag

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 and an untagged RBX1.

#### Product Information

<b>Quantity:</b>	25 µg
<b>MW:</b>	95 kDa (CUL4A), 12 kDa (RBX1)
<b>Source:</b>	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human CUL4A/RBX1 Complex protein Accession # Q13619, P62877
<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>Purity:</b>	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

#### Use & Storage

<b>Use:</b>	Typical enzyme concentration to support in vitro conjugation will depend on experimental conditions.
<b>Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>• 60 months from date of receipt, -70 °C as supplied.</li><li>• 3 months, -70 °C under sterile conditions after opening.</li></ul>

## Literature

### References:

1. Baek K., et al. (2020) Nature **578**: 461
2. Fischer E.S., et al. (2014) Nature **512**: 49
3. He Y.J., et al. (2006) Genes Dev. **20**: 2949
4. Ito T., et al. (2010) Science **327**: 1345
5. Wang H., et al. (2006) Mol. Cell **22**: 383

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