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MATERIAL DATA SHEET

Recombinant Human CUL4A/RBX1/DDB1/CRBN Complex His-tag
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 substrate 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 CUL4 subunit, though neddylation may be dispensable in some in vitro reactions. This complex consists of an N-terminal 10-His tagged Cullin-4A, untagged RBX1, untagged DDB1 and untagged CRBN.

Product Information	
Quantity:	25 µg
MW:	93 kDa (CUL4A), 12 kDa (RBX1), 127 kDa (DDB1), 51 kDa (CRBN)
Source:	*Spodoptera frugiperda*, *Sf* 21 (baculovirus)-derived human CUL4A/RBX1/DDB1/CRBN Complex protein Accession # Q13619, P62877, Q16531, Q96SW2
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
Purity:	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage	
Use:	Typical concentration to support in vitro conjugation reactions will depend on experimental conditions.
Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 24 months from date of receipt, -70 °C as supplied. • 3 months, -70 °C under sterile conditions after opening.

Literature

References:

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

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