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Recombinant Human CUL4A/RBX1 Complex His-tag

Catalog Number: E3-440

RDSYSTEMS

DESCRIPTION	
Source	<i>Spodoptera frugiperda, Sf</i> 21 (baculovirus)-derived human CUL4A/RBX1 Complex protein Met1 - Ala759 with a N-terminal 10-His Sumo tag (CUL4A), Met1 - His108 (RBX1) Accession # Q13619.3 (CUL4A), P62877.1 (RBX1)
Predicted Molecular Mass	94 kDa (CUL4A), 12 kDa (RBX1)

SPECIFICATIONS	
Activity	Typical enzyme concentration to support in vitro conjugation will depend on experimental conditions.
Purity	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Formulation	Supplied as a solution in HEPES, NaCI, Glycerol and DTT. See Certificate of Analysis for details.

PREPARATION AND STORAGE		
Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 6 months from date of receipt, -70 °C as supplied. 	
	 3 months, -70 °C under sterile conditions after opening. 	

BACKGROUND

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.

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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