

# Active Recombinant Human CUL4A/RBX1 Complex Protein, His-Tagged

**Cat. No.** CUL4A-04H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human CUL4A/RBX1 Complex Protein, His-Tagged was expressed in sf21 cell
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>Description</b>	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. CUL4A is neddylated in this complex.
<b>Bio-activity</b>	Typical enzyme concentration to support in vitro conjugation will depend on experimental conditions.
<b>Molecular Mass</b>	95 kDa (CUL4A), 12 kDa (RBX1)
<b>Purity</b>	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal

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	Coomassie® Blue stain.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 60 months from date of receipt, -70 °C as supplied. 3 months, -70 °C under sterile conditions after opening.
<b>Storage Buffer</b>	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
<b>Shipping</b>	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

## GENE INFORMATION

<b>Gene Name</b>	CUL4A cullin 4A [ Homo sapiens (human) ]
<b>Official Symbol</b>	CUL4A
<b>Gene ID</b>	8451
<b>mRNA Refseq</b>	NM_001008895.4
<b>Protein Refseq</b>	NP_001008895.1
<b>MIM</b>	603137
<b>UniProt ID</b>	Q13619

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