

Active Recombinant Human CUL4A/RBX1/DDB1/CRBN Complex Protein, His-Tagged

Cat. No. CUL4A-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CUL4A/RBX1/DDB1/CRBN Complex Protein, His-Tagged was expressed in sf21 cell
Species	Human
Source	Sf21 Cells
Description	<p>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.</p>
Bio-activity	Typical concentration to support in vitro conjugation reactions will depend on experimental conditions.
Molecular Mass	93 kDa (CUL4A), 12 kDa (RBX1), 127 kDa (DDB1), 51 kDa (CRBN)
Purity	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal

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	Coomassie® Blue stain.
Usage	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.
Storage Buffer	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

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

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