

Active Recombinant Human CUL4A/NEDD8/RBX1/DDB1/CRBN Complex Protein, His-Tagged

Cat. No. CUL4A-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CUL4A/NEDD8/RBX1/DDB1/CRBN Complex Protein, His-Tagged was expressed in sf21 cell
Species	Human
Source	Sf21 Cells
Description	Cullin-4A 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), Cullin-4A 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 SCF complex is dependent on the neddylation of the cullin subunit, though neddylation may be dispensable in some in vitro reactions. This complex consists of an N-terminal 10-His tagged, neddylated (UniProt Q15843) Cullin-4A (UniProt Q13619), untagged RBX1 (UniProt P62877), untagged DDB1 (UniProt Q16531) and untagged CRBN (UniProt Q96SW2).
Bio-activity	Typical concentration to support in vitro conjugation reactions will depend on experimental conditions.
Molecular Mass	104 kDa (Neddylated CUL4A), 12 kDa (RBX1), 127 kDa (DDB1), 51 kDa (CRBN)

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Purity	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 48 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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