

# Active Recombinant Human CUL5/NEDD8/RBX2 Complex Protein, His-Tagged

**Cat. No.** CUL5-01H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human CUL5/NEDD8/RBX2 Complex Protein, His-Tagged was expressed in sf21 cell
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>Description</b>	<p>Cullin-5 (CUL5) is a core component of multiple ECS (Elongin-CUL5-SOCS-box protein) E3 ubiquitin ligase complexes that mediate the ubiquitination of proteins involved in cytokine receptor signal transduction. In the ECS complex, CUL5 serves as a scaffold that organizes the Elongin B/Elongin C/SOCS (Suppressor of Cytokine Signaling) recognition subunits with the RBX 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 ECS 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 CUL5 (UniProt Q93034) and untagged RBX2 (UniProt Q9UBF6). CUL5 is neddylated in this complex.</p>
<b>Bio-activity</b>	Typical enzyme concentration to support in vitro conjugation will depend on experimental conditions.
<b>Molecular Mass</b>	103 kDa (neddylated CUL5), 13 kDa (RBX2)
<b>Purity</b>	>95%, 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>	CUL5 cullin 5 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CUL5
<b>Synonyms</b>	CUL-5; VACM1; VACM-1
<b>Gene ID</b>	8065
<b>mRNA Refseq</b>	NM_003478.6
<b>Protein Refseq</b>	NP_003469.2
<b>MIM</b>	601741
<b>UniProt ID</b>	Q93034

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