

---

## MATERIAL DATA SHEET

---

### Recombinant Human CUL5/RBX2 Complex

#### Cat. # E3-450

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).

#### Product Information

<b>Quantity:</b>	25 µg
<b>MW:</b>	94 kDa (CUL5), 13 kDa (RBX2)
<b>Source:</b>	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human CUL5/RBX2 Complex protein Accession # Q93034, Q9UBF6
<b>Stock:</b>	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
<b>Purity:</b>	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

#### Use & Storage

<b>Use:</b>	Typical enzyme concentration to support in vitro conjugation will depend on experimental conditions.
<b>Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>• 60 months from date of receipt, -70 °C as supplied.</li><li>• 3 months, -70 °C under sterile conditions after opening.</li></ul>

## Literature

### References:

1. Baek K., et al. (2020) *Nature* **578**: 461
2. Duda D.M., et al. (2012) *Mol. Cell* **47**: 371
3. Kamura T., et al. (2004) *Genes Dev.* **18**: 3055
4. Kamura T., et al. (2001) *J. Biol. Chem.* **276**: 29748

*For research use only. Not for use in humans.*