

---

## MATERIAL DATA SHEET

---

### Recombinant Human CUL2/RBX1 Complex His-tag

#### Cat. # E3-420

Cullin-2 is a core component of multiple cullin-RING based "ECS" (Elongin B/C-CUL2-SOCS-box protein) E3 Ubiquitin ligase complexes that mediate the ubiquitination of proteins involved in a variety of cellular processes. In the ECS complex, Cullin-2 serves as a scaffold that organizes the ELOB/C-associated recognition subunits with the RBX1 subunit and contributes to the 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 Cullin-2 (UniProt Q13617) and untagged RBX1 (P62877).

#### Product Information

<b>Quantity:</b>	25 µg
<b>MW:</b>	93 kDa (CUL2), 12 kDa (RBX1)
<b>Source:</b>	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human CUL2/RBX1 Complex protein
<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>	>90%, 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. (2008) *Cell* **134**: 995
3. Duda D.M., et al. (2012) *Mol. Cell* **47**: 371
4. Goldenberg S.J., et al. (2004) *Cell* **119**: 517
5. Zheng N., et al. (2002) *Nature* **416**: 703

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