

MATERIAL DATA SHEET

Recombinant Human CUL3/RBX2 Complex

Cat. # E3-430

Cullin-3 (CUL3) is a core component of multiple BCR (BTB-CUL3-RBX) E3 Ubiquitin ligase complexes that mediate the ubiquitination of several classes of signaling and structural proteins. In the BCR complex, CUL3 serves as a scaffold that organizes one or more BTB (BR-C, Ttk and Bab, also known as a POZ domain) substrate recognition subunits with the RBX subunit and contributes to catalysis through positioning of the substrate and an E2 ubiquitin-conjugating enzyme. Substrate specificity of a BCR ligase is determined by the BTB domain protein(s) associated with the ligase, though BTB-independent CUL3 ligase activity has been reported. In vivo, the E3 ubiquitin ligase of the BCR 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 CUL3 (UniProt Q13618) and untagged RBX2 (UniProt Q9UBF6).

Product Information

Quantity:	25 µg
MW:	92 kDa (CUL3), 13 kDa (RBX2)
Source:	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human CUL3/RBX2 Complex protein Accession # Q13618, Q9UBF6
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10%(v/v) Glycerol, 1 mM DTT
Purity:	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

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

Literature

References:

1. Baek K., et al. (2020) Nature **578**: 461
2. Choo Y.Y & Hagen T. (2012) PLoS One doi:10.1371/journal.pone.0041350
3. Davidge B., et al. (2019) J. Cell Sci. doi: 10.1242/jcs.233049
4. Duda D.M., et al. (2012) Mol. Cell **47**: 371
5. Stogios P.J. et al. (2005) Genome Biol. **6**: R82

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