

Lot # XXXXX

## MATERIAL DATA SHEET

### **CUL1 (Neddylated)/RBX1 Complex, *human recombinant*** **Cat. # E3-411**

Cullin-1 (CUL1) is a core component of multiple SCF (SKP1-CUL1-F-box) E3 Ubiquitin ligase complexes that mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, CUL1 serves as a scaffold that organizes the SKP1-F-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 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 CUL1 (UniProt Q13616) and untagged RBX1 (UniProt P62877). CUL1 is neddylated (Q15843) in this complex.

#### Product Information

<b>Quantity:</b>	25 µg
<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>MW:</b>	105 kDa (Neddylated CUL1) + 12 kDa (RBX1)
<b>Purity:</b>	> 90% by SDS-PAGE by SDS-PAGE under reducing conditions and visualized with Colloidal Coomassie Blue Stain.

#### Use & Storage

<b>Use:</b>	Typical protein concentration for use <i>in vitro</i> will depend on experimental conditions.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

#### Literature

<b>References:</b>	Duda D.M., <i>et al.</i> (2008) <i>Cell</i> <b>134</b> : 995 Duda D.M., <i>et al.</i> (2012) <i>Mol. Cell</i> <b>47</b> : 371 Goldenberg S.J., <i>et al.</i> (2004) <i>Cell</i> <b>119</b> : 517 Zheng N., <i>et al.</i> (2002) <i>Nature</i> <b>416</b> : 703
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