

## MATERIAL DATA SHEET

### Recombinant Human DDB1/CRBN Complex

#### Cat. # E3-500

Cereblon (CRBN) is the substrate recognition component of DCX (DDB1-CUL4-X-box) E3 Ubiquitin ligase complexes that mediate the ubiquitination of numerous target proteins including the transcriptional regulator MEIS2. CRBN plays an important role in limb outgrowth, and its function in this process is perturbed by the binding of thalidomide and related compounds. Binding of CRBN to Cullin-4 is mediated in part by DNA damage-binding protein 1 (DDB1), a component of multiple DCX class ligases. In addition to its role in limb development, DDB1 is also involved in various DNA damage response mechanisms. This product consists of untagged DDB1 (UniProt Q16531) and untagged CRBN (UniProt Q96SW2).

#### Product Information

<b>Quantity:</b>	25 µg
<b>MW:</b>	127 kDa (DDB1), 51 kDa (CRBN)
<b>Source:</b>	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human DDB1/CRBN Complex protein Accession # Q16531, Q96SW2
<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 concentration to support in vitro applications 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>• 36 months from date of receipt, -70 °C as supplied.</li><li>• 6 months, -20 to -70 °C under sterile conditions after opening.</li></ul>

## Literature

### References:

1. Fischer E.S. et al. (2014) Nature **512**: 49
2. He Y.J., et al. (2006) Genes Dev. **20**: 2949
3. Ito T., et al. (2010) Science **327**: 1345
4. Wang H., et al. (2006) Mol. Cell **22**: 383

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