

## DCUN1D1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	DCNL1;SCCRO;Tes3;RP42;SCRO;DCUN1L1;DCN1, defective in cullin neddylation 1, domain containing 1
Protein Construction:	Met1-Val259
Species:	Human
Expression Host:	E. coli
Accession:	Q96GG9
Molecular Weight:	32.3 kDa (predicted); 32 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

DCUN1D1, also known as SCCRO, is part of an E3 ubiquitin ligase complex for neddylation. DCUN1D1 functions to recruit charged E2 and is involved in the release of inhibitory effects of CAND1 on cullin-RING ligase E3 complex assembly and activity. DCUN1D1 binds to the components of the neddylation pathway (Cullin-ROC1, Ubc12, and CAND1) and augments but is not required for cullin neddylation in reactions using purified recombinant proteins. DCUN1D1 also recruits Ubc12 approximately NEDD8 to the CAND1-Cul1-ROC1 complex but that this is not sufficient

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to dissociate or overcome the inhibitory effects of CAND1 on cullin neddylation in purified protein assays. DCUN1D1 also acts as an oncogene facilitating malignant transformation and carcinogenic progression.

### Reference

Heir P. et al., 2013, Mol Cell Biol. 33 (8): 1621-31.

Kurz T. et al., 2005, Nature. 435 (7046): 1257-61.

Kim AY. et al., 2008, J Biol Chem. 283 (48): 33211-20.

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