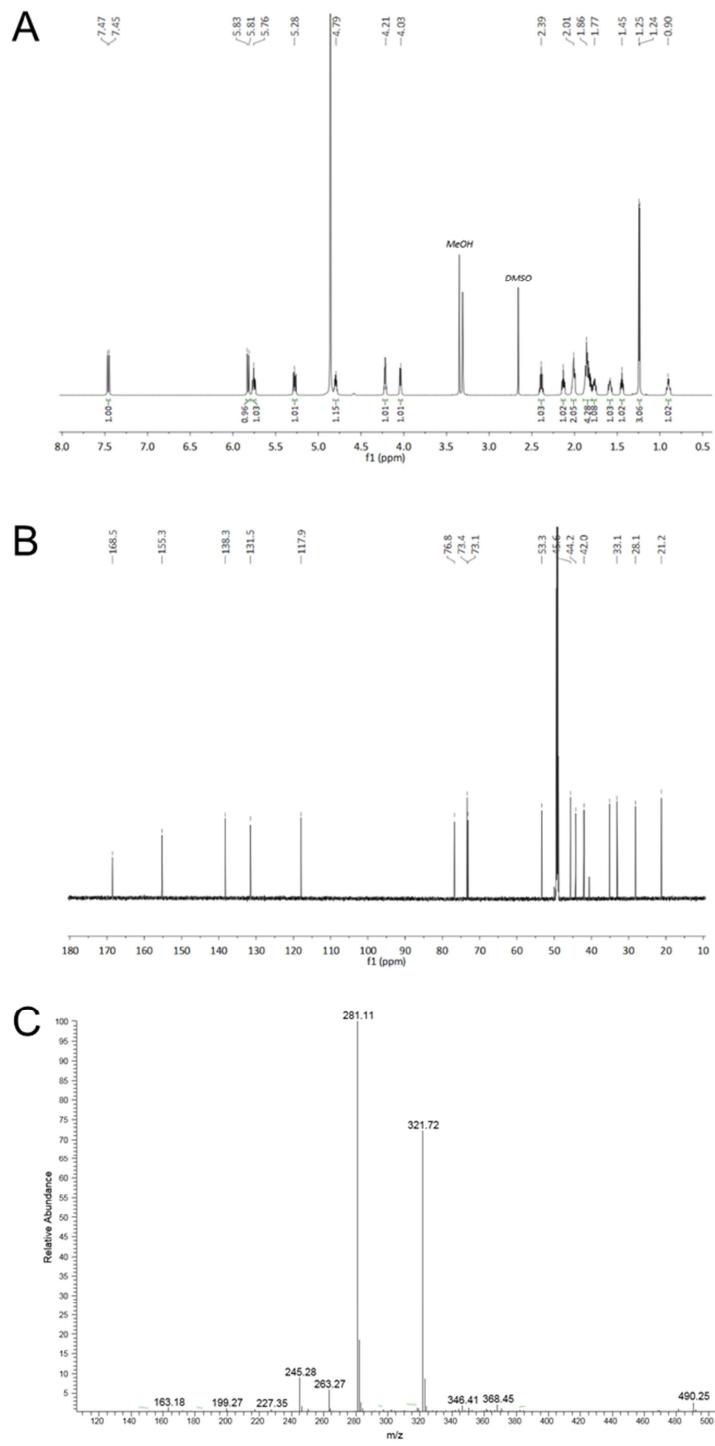# SUPPLEMENTARY INFORMATION

The Fungal Metabolite Brefeldin A Inhibits Dvl2-Plk1-dependent Primary Cilium Disassembly

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Supplementary Figure S1. 1D NMR and MS spectra of KY-0120 (BFA).

   (A) The ^{1}H (800 MHz) NMR spectrum of KY-0120 (BFA) in CD$_3$OD.

   (B) The ^{13}C NMR (200 MHz) spectrum of KY-0120 (BFA) in CD$_3$OD.

   (C) (+) ESI-MS spectrum of KY-0120 (BFA).

Supplementary Table S1. An Excel file containing the list of chemical library and the first round of screening data.

Supplementary Table S2. Antibodies used in immunoblotting analyses.

Antibodies	Host Species	Dilution	Source
anti-Dvl2	rabbit	1:1000	Cell Signaling, Danvers, MA
anti-Plk1	mouse	1:500	SantaCruz, Santa Cruz, CA
anti-CK1ε	Mouse	1:1000	BD Transduction Laboratories, Franklin Lakes, NJ
anti-Cyclin A	rabbit	1:1000	SantaCruz, Santa Cruz, CA
anti-Cyclin B1	rabbit	1:1000	Cell Signaling, Danvers, MA
anti-Cyclin D1	rabbit	1:1000	SantaCruz, Santa Cruz, CA
anti-Cyclin E1	mouse	1:1000	Cell Signaling, Danvers, MA
anti-α-tubulin	rabbit	1:1000	Abcam, Cambridge, MA
anti-Flag	mouse	1:1000	Sigma, St. Louis, MO
anti-HA	mouse	1:500	SantaCruz, Santa Cruz, CA
anti-c-Myc	mouse	1:1000	SantaCruz, Santa Cruz, CA

Supplementary Table S3. Primers used in RT-PCR analyses.

Target Genes		Primer Sequences
Plk1	Forward	5'-ACCAGCACGTCGTAGGATTC-3'
	Reverse	5'-ATAACTCGGTTTCGGTGCAG-3'
Dvl2	Forward	5'- GCACCATTACATCTGGATCGT-3'
	Reverse	5'-GTAGAGCCAGTCAACCACAT-3'
GAPDH	Forward	5'-AGCCACATCGCTCAGACAC-3'
	Reverse	5'-GCCCAATACGACCAAATCC-3'