

Product Datasheet

Cereblon modulator 1 (orb1219586)

Catalog Number	orb1219586
Category	Small Molecules
Description	Cereblon modulator 1 is a cereblon (CRBN) E3 ligase modulator. It specifically binds to CRBN, thereby affecting the activity of the ubiquitin E3 ligase complex. Cereblon modulator 1 (compound F) that demonstrates anti-proliferative activity in non-AML hematological cancer cell lines does not inhibit cell growth in any of the 11 AML cell lines tested, including the ten cell lines that are sensitive to the growth inhibitory activity of Compound D. However, when excess Cereblon modulator 1 is added to KG-1 AML cell cultures in the presence of Compound D, the anti-proliferative activity of Compound D is reduced, presumably due to competition for binding of Compound D to CRBN. The relative impact of Cereblon modulator 1 on the anti-proliferative effect of Compound D progressively increased with increasing concentrations of Cereblon modulator 1. In the presence of 100 µM Cereblon modulator 1, the potency of Compound D in inhibiting cell growth reduced by approximately 60-fold, and the potency of Compound D in inducing apoptosis reduced by approximately 40-fold.
Target	E3 Ligase Ligand
Purity	>98% (HPLC)
MW	461.85
Target Areas	cereblon (CRBN) E3 ligase
Solubility (25°C)	DMSO:240 mg/mL (519.65 mM; Need ultrasonic)
CAS Number	1860875-51-9
Formula	C ₂₂ H ₁₈ ClF ₂ N ₃ O ₄
SMILES	FC(F)(C(=O)NCc1ccc2C(=O)N(Cc2c1)C1CCC(=O)NC1=O)c1ccc(Cl)cc1

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Storage	Storage temperature: -20°C. Stability: $\geq$ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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