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**Product Data Sheet**

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Product Name: CM-579  
Cat. No.: GC33320

**Chemical Properties**

Cas. No. 1846570-40-8

SMILES CN1CCC(CNC2=CC(C3=CC=C(C)O3)=NC4=CC(OCCCN5CCCC5)=C(OC)C=C24)CC1

Formula  $C_{29}H_{40}N_4O_3$  M.Wt 492.65

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

CM-579 is a first-in-class reversible, dual inhibitor of G9a and DNMT, with IC50 values of 16 nM, 32 nM for G9a and DNMT, respectively. Has potent in vitro cellular activity in a wide range of cancer cells[1].

The Kd of CM-579 for DNMT1 is 1.5 nM, CM-579 also inhibits DNMT3A and DNMT3B, with IC50s of 92 nM and 1000 nM, respectively[1].

[1]. San José-Enériz E, et al. Discovery of first-in-class reversible dual small molecule inhibitors against G9a and DNMTs in hematological malignancies. Nat Commun. 2017 May 26;8:15424.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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