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## Product Data Sheet

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Product Name: CM-579 hydrochloride

Cat. No.: GC34313

### Chemical Properties

Cas. No.

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

Formula  $C_{29}H_{41}ClN_4O_3$  M.Wt 529.11

Solubility DMSO : 125 mg/mL (207.63 mM);Methanol : 75 mg/mL (124.58 mM);Water : 37.5 mg/mL (62.29 mM) Store Storage 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 hydrochloride 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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