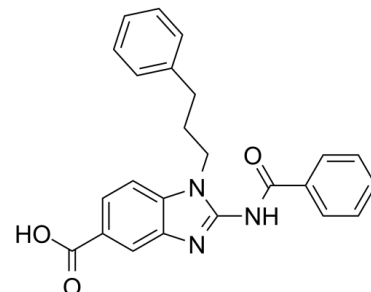


Data Sheet

Product Name:	BRD9539
Cat. No.:	CS-5862
CAS No.:	1374601-41-8
Molecular Formula:	C ₂₄ H ₂₁ N ₃ O ₃
Molecular Weight:	399.44
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Solubility:	DMSO : 16.67 mg/mL (41.73 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

BRD9539 inhibits G9a activity with an IC₅₀ of 6.3 μM, inhibits PRC2 activity with a similar IC₅₀. target: G9a, PRC2; IC₅₀: 6.3 μM (G9a), 6.3 μM (PRC2); BRD9539 is a more potent biochemical inhibitor than its methyl-ester analogue BRD4770, with 20% remaining G9a activity compared to 45% of BRD4770 at screening concentration.

References:

[1]. Yuan Y et al. A small-molecule probe of the histone methyltransferase G9a induces cellular senescence in pancreatic adenocarcinoma. ACS Chem Biol. 2012 Jul 20;7(7):1152-7.

CAIndexNames:

1H-Benzimidazole-5-carboxylic acid, 2-(benzoylamino)-1-(3-phenylpropyl)-

SMILES:

O=C(C1=CC=C2C(N=C(NC(C3=CC=CC=C3)=O)N2CCCC4=CC=CC=C4)=C1)O

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

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