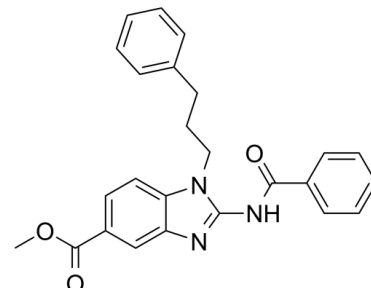


Data Sheet

Product Name:	BRD4770
Cat. No.:	CS-3446
CAS No.:	1374601-40-7
Molecular Formula:	C ₂₅ H ₂₃ N ₃ O ₃
Molecular Weight:	413.47
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Solubility:	H ₂ O : < 0.1 mg/mL (insoluble); DMSO : 5.56 mg/mL (13.45 mM); Need ultrasonic)



BIOLOGICAL ACTIVITY:

BRD4770 is a novel G9a(EHMT2) inhibitor with EC₅₀ of 5 μ M (trimethylated H3K9 in PANC-1 cell). IC₅₀ value: 5 μ M (PANC-1 cell) [1]
Target: G9a inhibitor BRD4770 activates the ATM pathway without inducing DNA damage, while the ATR pathway is not affected.
BRD4770 is a novel probe for studying G9a and its role in cellular senescence. Treatment of 5 μ M BRD4770 for 24 h decreased H3K9 trimethylation level by 23% in PANC-1 cells. BRD9539 also inhibits PRC2 activity.

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)-, methyl ester

SMILES:

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

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

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