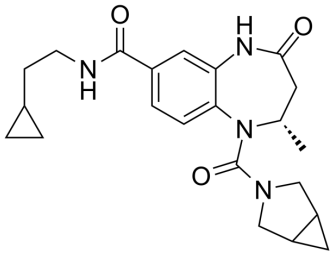
BAY-6035

Cat. No.:	HY-112080
CAS No.:	2247890-13-5
Molecular Formula:	$C_{22}H_{28}N_4O_3$
Molecular Weight:	396.48
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (252.22 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5222 mL	12.6110 mL	25.2220 mL
	5 mM	0.5044 mL	2.5222 mL	5.0444 mL
	10 mM	0.2522 mL	1.2611 mL	2.5222 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BAY-6035 is a potent, selective and substrate-competitive inhibitor of SMYD3. BAY-6035 inhibits methylation of MEKK2 peptide with an IC_{50} of 88 nM[1].

IC_{50} & Target

SMYD3
88 nM (IC_{50})

In Vitro

BAY-6035 inhibits in vitro methylation of MEKK2 peptide with an IC_{50} of 88 nM and has more than 100-fold selectivity over other histone methyltransferases[1].
BAY-6035 inhibits the methylation of MEKK2 in cells with an IC_{50} of 70 nM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Edoardo F, et, al. Small-molecule inhibitors of lysine methyltransferases SMYD2 and SMYD3: current trends. Future Med Chem. 2019 Apr; 11(8): 901-921.

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