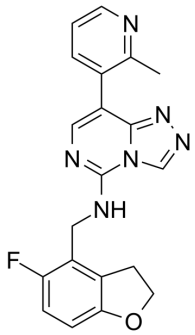
MAK683

Cat. No.:	HY-103663
CAS No.:	1951408-58-4
Molecular Formula:	$C_{20}H_{17}FN_6O$
Molecular Weight:	376.39
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 40 mg/mL (106.27 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6568 mL	13.2841 mL	26.5682 mL
	5 mM	0.5314 mL	2.6568 mL	5.3136 mL
	10 mM	0.2657 mL	1.3284 mL	2.6568 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.17 mg/mL (5.77 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.17 mg/mL (5.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MAK683 is an embryonic ectoderm development (EED) inhibitor extracted from patent US20160176882 A1, compound example 2. MAK683 exhibits IC_{50}s of 59, 89, 26 nM in EED Alphascreen binding, LC-MS and ELISA assay[1][2].

IC_{50} & Target

IC50: 59 nM (EED Alphascreen), 89 nM (LC-MS), 26 nM (ELISA)[1]

In Vitro

MAK683 has antiproliferative activities in B cell lymphoma cell KARPAS422 after 14 days of treatment with an IC_{50} of 30 nM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Death Dis. 2022 Feb 15;13(2):155.

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REFERENCES

[1]. Chan, Ho Man, et al. TRIAZOLOPYRIMIDINE COMPOUNDS AND USES THEREOF. US20160176882 A1.

[2]. Huang D, et al. Binding Modes of Small-Molecule Inhibitors to the EED Pocket of PRC2. Chemphyschem. 2020 Feb 4;21(3):263-271.

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