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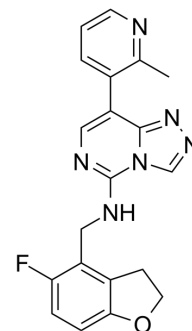
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MAK683

Cat. No.:	HY-103663
CAS No.:	1951408-58-4
Molecular Formula:	C ₂₀ H ₁₇ FN ₆ O
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 Concentration	Mass	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	IC ₅₀ : 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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Caution: Product has not been fully validated for medical applications. For research use only.

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