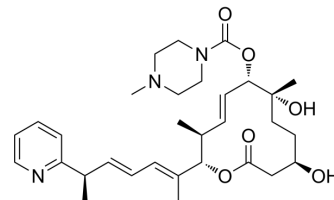


H3B-8800

Cat. No.:	HY-111517		
CAS No.:	1825302-42-8		
Molecular Formula:	C ₃₁ H ₄₅ N ₃ O ₆		
Molecular Weight:	555.71		
Target:	DNA/RNA Synthesis; Apoptosis		
Pathway:	Cell Cycle/DNA Damage; Apoptosis		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (179.95 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7995 mL	8.9975 mL	17.9950 mL
	5 mM	0.3599 mL	1.7995 mL	3.5990 mL
	10 mM	0.1799 mL	0.8997 mL	1.7995 mL

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

BIOLOGICAL ACTIVITY

Description

H3B-8800 is a potent and orally active SF3B splicing modulator. H3B-8800 direct interaction with the SF3b complex and shows anti-cancer activity. H3B-8800 has the potential for the research of acute myeloid leukemia (AML) with SF3B1 mutant [1].

IC₅₀ & Target

SF3B splicing^[1]

In Vitro

H3B-8800 (0.1-10000 nM; 72 h) inhibits cell growth in SF3B1-mutant cell line Panc05.04 cells^[1].
 H3B-8800 (0.1-10000 nM; 24 h) induces apoptosis in SF3B1-mutant cell line Panc05.04 cells in a dose-dependent manner^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Apoptosis Analysis^[1]

Cell Line:	SF3B1-mutant cell line Panc05.04 cells
Concentration:	0.1, 1, 10, 100, 1000, 10000 nM

	Incubation Time:	24 h
	Result:	Induced apoptosis by increased caspase-3/7 cleavage in a dose-dependent manner.
In Vivo	H3B-8800 (2, 4 mg/kg; p.o.; daily) shows anti tumor activity in AML derived xenografts (PDXs) with a mutation in SF3B1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	6-8 weeks, female NSG or CB17-SCID mice (K562 cells with SF3B1 ^{WT} or SF3B1 ^{K700E}) ^[1]
	Dosage:	2, 4 mg/kg
	Administration:	P.o.; daily
	Result:	Resulted in antileukemic efficacy and splicing modulation in mice bearing AML patient-derived xenografts (PDXs) with a mutation in SF3B1 but had little effect in mice bearing SF3B1 ^{WT} AML PDXs, significantly reduced leukemic burden relative in SF3B1 ^{K700E} PDX.

REFERENCES

[1]. Seiler M, et al. H3B-8800, an orally available small-molecule splicing modulator, induces lethality in spliceosome-mutant cancers. Nat Med. 2018 May;24(4):497-504.

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

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