



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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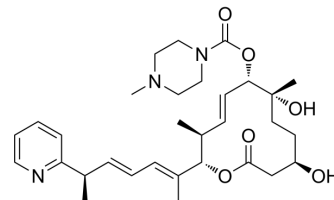
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## H3B-8800

<b>Cat. No.:</b>	HY-111517		
<b>CAS No.:</b>	1825302-42-8		
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>45</sub> N <sub>3</sub> O <sub>6</sub>		
<b>Molecular Weight:</b>	555.71		
<b>Target:</b>	DNA/RNA Synthesis; Apoptosis		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Apoptosis		
<b>Storage:</b>	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	Mass		
	1 mg	5 mg	10 mg
<b>1 mM</b>	1.7995 mL	8.9975 mL	17.9950 mL
<b>5 mM</b>	0.3599 mL	1.7995 mL	3.5990 mL
<b>10 mM</b>	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].

#### IC<sub>50</sub> & Target

SF3B splicing<sup>[1]</sup>

#### In Vitro

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

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.
<b>In Vivo</b>	H3B-8800 (2, 4 mg/kg; p.o.; daily) shows anti tumor activity in AML derived xenografts (PDXs) with a mutation in SF3B1 <sup>[1]</sup> . 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 <sup>WT</sup> or SF3B1 <sup>K700E</sup> ) <sup>[1]</sup>
	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 <sup>WT</sup> AML PDXs, significantly reduced leukemic burden relative in SF3B1 <sup>K700E</sup> 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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