



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

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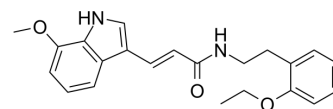
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JI051

Cat. No.:	HY-117113
CAS No.:	2234281-75-3
Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₃
Molecular Weight:	364.44
Target:	Notch
Pathway:	Neuronal Signaling; Stem Cell/Wnt
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 : 125 mg/mL (342.99 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.7439 mL	13.7197 mL	27.4394 mL
		5 mM		0.5488 mL	2.7439 mL	5.4879 mL
		10 mM		0.2744 mL	1.3720 mL	2.7439 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: ≥ 2.08 mg/mL (5.71 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.71 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	JI051 is a stabilizer for the Hes1-PHB2 interaction. JI051 interacts with a cancer-associated protein chaperone prohibitin 2 (PHB2), induces cell-cycle arrest by inhibiting the Notch downstream effector gene Hes1. Anti-cancer activity ^[1] .	
In Vitro	JI051 causes G2/M cell-cycle arrest ^[1] . JI051 (0.1-10 μM, 24 hours) significantly inhibits cell proliferation of HEK293 cells, with an EC ₅₀ of 0.3 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]	
	Cell Line:	HEK293 cells

Concentration:	0.1-10 μ M
Incubation Time:	24 hours
Result:	Dose-dependently inhibits the proliferation of HEK293 cells at low concentrations.

REFERENCES

[1]. Perron A, et al. Small-molecule screening yields a compound that inhibits the cancer-associated transcription factor Hes1 via the PHB2 chaperone. J Biol Chem. 2018 May 25;293(21):8285-8294.

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

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