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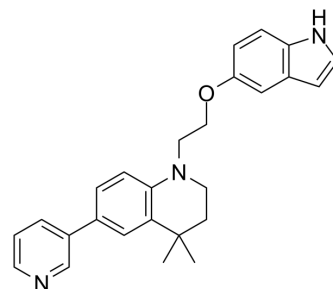
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STAT5-IN-2

Cat. No.:	HY-102048		
CAS No.:	2111834-61-6		
Molecular Formula:	C ₂₆ H ₂₇ N ₃ O		
Molecular Weight:	397.51		
Target:	STAT; Apoptosis		
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; Apoptosis		
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 : 100 mg/mL (251.57 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.5157 mL	12.5783 mL	25.1566 mL	
		5 mM	0.5031 mL	2.5157 mL	5.0313 mL	
		10 mM	0.2516 mL	1.2578 mL	2.5157 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (6.29 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	STAT5-IN-2 is a STAT5 inhibitor, extracted from reference 1, example 17f. STAT5-IN-2 has potent antileukemic effect ^[1] .	
IC ₅₀ & Target	STAT5 9 μM (EC ₅₀ , in K562 cells)	STAT5 5 μM (EC ₅₀ , in KU812 cells)
In Vitro	STAT5-IN-2 has EC ₅₀ values of 9 μM and 5 μM in K562 and KU812 cells, respectively ^[1] . STAT5-IN-2 (100 nM-50 μM; 48 hours) has EC ₅₀ values of 2.6 μM and 3.5 μM in KG1a and MV-4-11 cells, respectively ^[1] . STAT5-IN-2 (10 μM; 48 hours) induces apoptosis in all cell lines (K562, KU812, KG1a and MV-4-11 cells) ^[1] . STAT5-IN-2 (10 μM; 24 hours) blocks phosphorylation of STAT5 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]	

Cell Line:	KG1a and MV-4-11 cell lines
Concentration:	100 nM, 10 μ M, 20 μ M, 30 μ M, 40 μ M, 50 μ M
Incubation Time:	48 hours
Result:	Inhibited cell growth in KG1a and MV-4-11 cell lines

Apoptosis Analysis^[1]

Cell Line:	K562, KU812, KG1a and MV-4-11 cells
Concentration:	10 μ M
Incubation Time:	48 hours
Result:	Significantly increased the number of apoptotic cells.

Western Blot Analysis^[1]

Cell Line:	KG1a, MV-4-11 and KU812 cells
Concentration:	10 μ M
Incubation Time:	24 hours
Result:	Inhibited phosphorylation of STAT5 compared to no influence on phosphorylation level of STAT3, Akt and Erk1/2.

CUSTOMER VALIDATION

- J Exp Med. 2021 Sep 6;218(9):e20210009.
- J Immunol. 2022 Aug 29;ji2200195.

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REFERENCES

[1]. Ludovic Juen, et al. New Inhibitor Targeting Signal Transducer and Activator of Transcription 5 (STAT5) Signaling in Myeloid Leukemias. J Med Chem. 2017 Jul 27;60(14):6119-6136.

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

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