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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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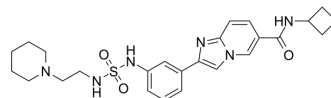
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SR-0813

Cat. No.:	HY-145409		
CAS No.:	2597186-19-9		
Molecular Formula:	C ₂₅ H ₃₂ N ₆ O ₃ S		
Molecular Weight:	496.62		
Target:	Epigenetic Reader Domain		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (201.36 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.0136 mL	10.0681 mL	20.1361 mL
	5 mM	0.4027 mL	2.0136 mL	4.0272 mL
	10 mM	0.2014 mL	1.0068 mL	2.0136 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: ≥ 2.5 mg/mL (5.03 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	SR-0813 is a potent and selective ENL/AF9 YEATS domain inhibitor. SR-0813 has IC ₅₀ and EC ₅₀ values of 25 nM and 205 nM for ENL YEATS domain, respectively. SR-0813 has IC ₅₀ and EC ₅₀ values of 311 nM and 76 nM (CETSA) for AF9 YEATS domain, respectively. SR-0813 binds MAP3K19 with over 100-fold lower affinity (K _d =3.5 μM) than ENL YEATS (K _d =30 nM). SR-0813 can be used for the research of acute leukemia ^[1] .			
IC ₅₀ & Target	ENL YEATS domain 25 nM (IC ₅₀)	ENL YEATS domain 205 nM (EC ₅₀)	AF9 YEATS domain 311 nM (IC ₅₀)	AF9 YEATS domain 76 nM (EC ₅₀)
	ENL YEATS domain 30 nM (K _d)	MAP3K19 3.5 μM (K _d)		
In Vitro	SR-0813 (compound 10; 0, 1, 10 μM; 4 h) dose-dependent evicts ENL from known ENL binding sites, including the HOXA10			

gene body and MYB promoter in MV4;11 cells^[1].

SR-0813 (0, 1, 10 μ M; 0, 24, 48, 72 h) downregulates the transcript levels of HOXA9, MEIS1, and MYC, and increases the abundance of the ITGAM transcript in MV4;11 cells^[1].

SR-0813 (0, 1, 10 μ M; approximately 2 weeks) inhibits the growth of multiple lineage leukemia (MLL)-fusion leukemia cell lines (MV4;11, MOLM-13, OCI/AML-2) and HB11;19 cells^[1].

SR-0813 (1 μ M, 4h) does not elicit global changes in gene expression in MV4;11 cells, but produces a strikingly selective suppression of ENL target genes^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay^[1]

Cell Line:	MLL-fusion leukemia cell lines: MV4;11 (MLL-AF4 AML), MOLM-13 (MLL-AF9 AML), and OCI/AML-2 (MLL-AF6 AML), which are sensitive to the genetic loss of ENL. HB11;19 cells, which harboring an MLL-ENL fusion.
Concentration:	0, 1, 10 μ M
Incubation Time:	Approximately 2 weeks
Result:	Inhibited the growth of cells.

REFERENCES

[1]. Garnar-Wortzel L, et al. Chemical Inhibition of ENL/AF9 YEATS Domains in Acute Leukemia. ACS Cent Sci. 2021 May 26;7(5):815-830.

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

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