## STL1267

®

MedChemExpress

Cat. No.:	HY-148711		
CAS No.:	1429024-58	-7	
Molecular Formula:	C <sub>17</sub> H <sub>11</sub> ClN <sub>4</sub> O	)	
Molecular Weight:	322.75		
Target:	REV-ERB		
Pathway:	Metabolic E	nzyme/P	rotease; Vitamin D Related/Nuclear Receptor
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0984 mL	15.4919 mL	30.9837 mL
		5 mM	0.6197 mL	3.0984 mL	6.1967 mL
		10 mM	0.3098 mL	1.5492 mL	3.0984 mL

BIOLOGICAL ACTIV		
DIOLOGICAL ACTIV		
Description		ss-the-blood-brain barrier REV-ERB agonist with a K <sub>i</sub> value of 0.16 μM for REV-ERBα. STL1267 267 inhibits the gene expression of BMAL1 <sup>[1]</sup> .
IC <sub>50</sub> & Target	$K_i: 0.16 \; \mu M \; (REV-ERB\alpha)^{[1]}$	
In Vitro	Scad, Lkb1, Sirt1, Nampt, Pp	ses the expression of BMAL1 and increases the gene expression of Mtnd1, Mtco1, Vicad, Lcad, bargc1a in HepG2 cells <sup>[1]</sup> . confirmed the accuracy of these methods. They are for reference only. HepG2, C2C12 cells 0-20 μM 24 h

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	Result:	Showed no adverse effects on cell viability up to the maximum dose examined 20 $\mu\text{M}.$			
	RT-PCR <sup>[1]</sup>				
	Cell Line:	HepG2 cells			
	Concentration:	5 μΜ			
	Incubation Time:	24 h			
	Result:	Decreased the gene expression of BMAL1, increased the gene expression of Mtnd1, Mtco1 Vicad, Lcad, Scad, Lkb1, Sirt1, Nampt, Ppargc1a.			
Vivo		STL1267 (50 mg/kg; i.p.; once) inhibits Bmal1 expression in mouse <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	6-8 weeks, male C57Bl/6 J mice <sup>[1]</sup>			
	Animal Model: Dosage:	6-8 weeks, male C57Bl/6 J mice <sup>[1]</sup> 50 mg/kg			

## REFERENCES

[1]. Murray MH, et al. Structural basis of synthetic agonist activation of the nuclear receptor REV-ERB. Nat Commun. 2022 Nov 21;13(1):7131.

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

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