SR10067

®

MedChemExpress

Cat. No.:	HY-117516				
CAS No.:	1380548-02-	-6			
Molecular Formula:	C ₃₁ H ₃₁ NO ₃				
Molecular Weight:	465.58				
Target:	REV-ERB				
Pathway:	Metabolic Enzyme/Protease; 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
Prej Stor	Preparing Stock Solutions	1 mM	2.1479 mL	10.7393 mL	21.4786 m
		5 mM	0.4296 mL	2.1479 mL	4.2957 mL
		10 mM	0.2148 mL	1.0739 mL	2.1479 mL

BIOLOGICAL ACTIV				
Description	SR10067 is a potent, selective and brain penetrant REV-ERB agonist. SR10067 has high affinity for Rev-Erbβ and Rev-Erbα with IC ₅₀ values of 160 nM and 170 nM, respectively. SR10067 can be used for the research of metabolic diseases and neuropsychiatric disorders ^{[1][2]} .			
IC ₅₀ & Target	IC50: 160 nM (Rev-Erbβ); 170 nM (Rev-Erbα) ^[1]			
In Vitro	SR10067 has high affinity for Rev-Erbβ and Rev-Erbαwith IC ₅₀ values are 160 and 170 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	SR10067 (i.p.; 30 mg/kg) has good pharmacokinetic properties in mouse ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Mice ^[1]			

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Dosage:	30 mg/kg
Administration:	i.p.
Result:	Remained above the IC ₅₀ of the receptor in plasma and brain concentrations. Suppressed the circadian rhythm of Npas2 gene expression in the mouse hypothalamus i a single injection and had a dose-dependent effect on reduction in nocturnal wheel running activity. Induced wakefulness and reduced SWS and REM sleep and displayed high anxiolytic activity.

REFERENCES

[1]. Banerjee S, et al. Pharmacological targeting of the mammalian clock regulates sleep architecture and emotional behaviour. Nat Commun. 2014 Dec 23;5:5759. doi: 10.1038/ncomms6759.

[2]. Thevis M, et al. Emerging drugs affecting skeletal muscle function and mitochondrial biogenesis - Potential implications for sports drug testing programs. Rapid Commun Mass Spectrom. 2016 Mar 15;30(5):635-51.

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

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