## **SAE-14**

Cat. No.:	HY-147222		
CAS No.:	1241280-25	-0	
Molecular Formula:	C <sub>19</sub> H <sub>19</sub> F <sub>3</sub> N <sub>2</sub> C	)2	
Molecular Weight:	364.36		
Target:	EBI2/GPR18	33	
Pathway:	GPCR/G Pro	otein	
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

In Vitro

 $\mathsf{DMSO}:100\ \mathsf{mg/mL}$  (274.45 mM; ultrasonic and warming and heat to  $60^\circ\mathsf{C})$ 

Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
	1 mM	2.7445 mL	13.7227 mL	27.4454 mL
	5 mM	0.5489 mL	2.7445 mL	5.4891 mL
	10 mM	0.2745 mL	1.3723 mL	2.7445 mL

Please refer to the solubility information to select the appropriate solvent.

DIOLOGICAL ACTIV			
Description	SAE-14 (compound SAE-14) is a potent, specific GPR183 antagonist with an IC <sub>50</sub> value of 28.5 nM, can antagonize 7α, 25- OHC–induced calcium mobilization with IC <sub>50</sub> value below 50 nM in HL-60 cells. GPR183 antagonist-1 can reverse allodynia in mice <sup>[1]</sup> .		
IC <sub>50</sub> & Target	IC50: 28.5 nM (GPR183) <sup>[1]</sup>		
In Vitro	SAE-14 (compound SAE-14) can able to antagonize 7α, 25-OHC–induced calcium mobilization with an IC <sub>50</sub> value below 50 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	The human leukemia (HL)-60 cells	
	Concentration:	5×of the antagonist	
	Incubation Time:	15 min	

## Product Data Sheet

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	Result:	Had GPR183-specific (IC <sub>50</sub> : 28.5nM) and abolished 7a, 25-OHC–induced calcium mobilization in the HL-60 cells.	
Vivo	SAE-14 (compound SAE MCE has not independe	SAE-14 (compound SAE-14) (i.th.; 2.9 μM; once) can reverse nerve injury-induced allodynia in mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male and female ICR mice <sup>[1]</sup>	
	Dosage:	2.9 μΜ	
	Administration:	intrathecal (i.th.) injections; 2.9 μM; once	

## REFERENCES

[1]. Kathryn Braden, et al. GPR183-Oxysterol Axis in Spinal Cord Contributes to Neuropathic Pain. J Pharmacol Exp Ther. 2020 Nov;375(2):367-375.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA