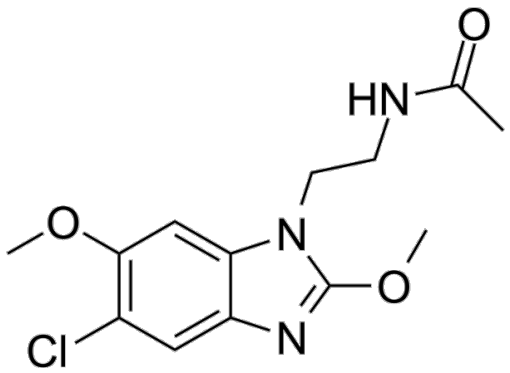
Product Data Sheet

Product Name: ACH-000143
Cat. No.: GC62825

Chemical Properties

Cas. No.	2225836-30-4		
Formula	$C_{13}H_{16}ClN_3O_3$	M.Wt	297.74
Solubility	DMSO : 50 mg/mL (167.93 mM; Need ultrasonic)	Storage	4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

ACH-000143 is a potent and orally active melatonin receptor agonist, with EC50 values of 0.06 nM and 0.32 nM for MT1 and MT2, respectively[1].

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ACH-000143 reduces liver triglycerides and steatosis in diet-Induced obese rats[1].ACH-000143 is devoid of hERG binding, genotoxicity, and behavioral alterations at doses up to 100 mg/kg p.o., supporting further investigation of this compound as a drug candidate[1].ACH-000143 significantly reduces plasma glucose at 10 mg/kg (-16.4%, $p < 0.05$) and 30 mg/kg (-16.9%, $p < 0.01$)[1].

[1]. Marcos Antonio Ferreira Jr, et al. Discovery of ACH-000143: A Novel Potent and Peripherally Preferred Melatonin Receptor Agonist that Reduces Liver Triglycerides and Steatosis in Diet-Induced Obese Rats. J Med Chem. 2021 Feb 25;64(4):1904-1929.

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