

Product Data Sheet

Product Name: ACH-000143

Cat. No.: GC62825

Chemical Properties

Cas. No. 2225836-30-4

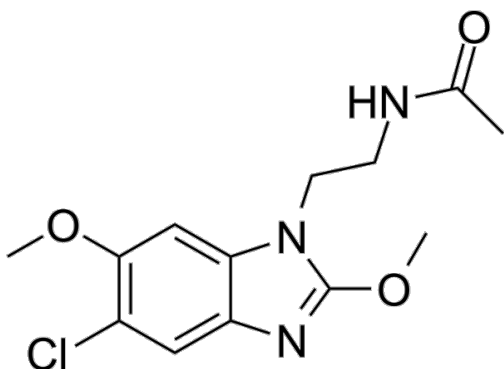
Formula $C_{13}H_{16}ClN_3O_3$ M.Wt 297.74

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].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA