

Product Data Sheet

Product Name: Anatabine dicitrate

Cat. No.: GC39254

Chemical Properties

Cas. No.

SMILES O=C(CC(C(O)=O)(O)CC(O)=O)O.O=C(CC(C(O)=O)(O)CC(O)=O)O.[C@@H]1(C2=CC=CN=C2)CC=CCN1

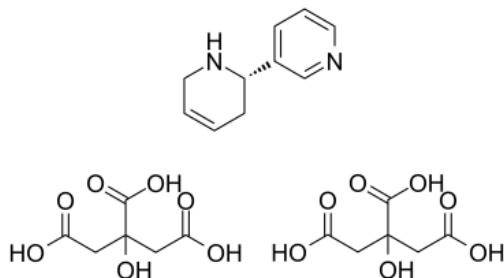
Formula $C_{22}H_{28}N_2O_{14}$ M.Wt 544.46

Solubility DMSO: 30 mg/mL (55.10 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Anatabine dicitrate is a tobacco alkaloid that can cross the blood-brain barrier. Anatabine dicitrate is a potent $\alpha 4 \beta 2$ nAChR agonist. Anatabine dicitrate inhibits NF- κ B activation lower amyloid- β ($A\beta$) production by preventing the β -cleavage of amyloid precursor protein (APP). Anatabine dicitrate has anti-inflammatory effects and has the potential for neurodegenerative disorders treatment[1][2][3].

[1]. Paris D, et al. Anatabine lowers Alzheimer's $A\beta$ production in vitro and in vivo. Eur J Pharmacol.

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

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2011 Nov 30;670(2-3):384-91. [2]. Xing H, et al. A Pharmacological Comparison of Two Isomeric Nicotinic Receptor Agonists: The Marine Toxin Isoanatabine and the Tobacco Alkaloid Anatabine. Mar Drugs. 2020 Feb 11;18(2). pii: E106. [3]. eo EJ, et al. Phytochemicals as inhibitors of NF- κ B for treatment of Alzheimer's disease. Pharmacol Res. 2018 Mar;129:262-273.

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