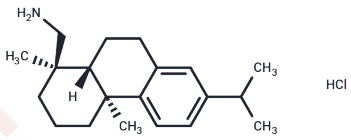
Data Sheet (Cat.No.T11834)

TargetMol

Leelamine hydrochloride

Chemical Properties



CAS No. : 16496-99-4

Formula: C20H32ClN

Molecular Weight: 321.93

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Leelamine hydrochloride, a tricyclic diterpene extracted from pine tree bark, inhibits the transcriptional activity of the androgen receptor, known to regulate fatty acid synthesis [2,3]. This compound acts as a cannabinoid receptor type 1 (CB1) agonist and suppresses SREBP1-regulated fatty acid/lipid synthesis in prostate cancer cells, irrespective of androgen receptor status.
Targets(IC50)	Cannabinoid Receptor,Others,Androgen Receptor,Fatty Acid Synthase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1063 mL	15.5313 mL	31.0627 mL
5 mM	0.6213 mL	3.1063 mL	6.2125 mL
10 mM	0.3106 mL	1.5531 mL	3.1063 mL
50 mM	0.0621 mL	0.3106 mL	0.6213 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kuzu OF, et al. Leelamine mediates cancer cell death through inhibition of intracellular cholesterol transport. Mol Cancer Ther. 2014 Jul;13(7):1690-703.

A.O. Ibegbu, et al. Therapeutic Potentials and uses of Cannabinoid Agonists in Health and Disease Conditions. British Journal of Pharmacology and Toxicology 3(2): 76-88, 2012

Singh KB, et al. Leelamine is a Novel Lipogenesis Inhibitor in Prostate Cancer Cells In Vitro and In Vivo. Mol Cancer Ther. 2019 Aug 8.

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