
Product Data Sheet

Product Name: Leelamine (hydrochloride)

Cat. No.: GC18496

Chemical Properties

Cas. No. 16496-99-4

Chemical Name 1R,2,3,4,4aS,9,10,10aR-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenemethanamine, monohydrochloride

SMILES CC(C)C(C=C1)=CC2=C1[C@]3(C)[C@](CC2)([H])[C@@](CN)(C)CCC3.ClFormula $C_{20}H_{31}N.HCl$ M.Wt 321.9

Solubility DMF: 20 mg/ml, DMSO: 25 mg/ml, DMSO:PBS (pH 7.2) (1:2): .15 mg/ml, Ethanol: 20 mg/ml Store Storage at -20°C

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**

Leelamine is a diterpene molecule whose name derives from the Sanskrit word leela which means "play". It has weak affinity for the human central cannabinoid (CB1) and peripheral cannabinoid (CB2) receptors, exhibiting 20% displacement of [3H]-CP55940 at a concentration of 10 uM. Leelamine inhibits pyruvate dehydrogenase kinase (PDK) with an IC50 of 9.5 uM. Derivatives of leelamine exhibit anti-inflammatory activity and show moderate inhibition of phospholipase A2 activity from a variety of sources.

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

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