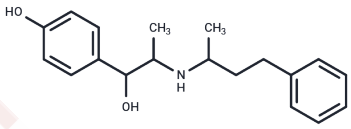
Data Sheet (Cat.No.T69239)

TargetMol

Nylidrin

Chemical Properties



CAS No. : 447-41-6

Formula: C19H25NO2

Molecular Weight: 299.41

Storage: Store at low temperature
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	Nylidrin (Buphenine) is a non-piperidine-related compound with antihypertensive activity, exhibiting antiviral activity by targeting hemagglutinin 2 of the influenza virus, mediating membrane fusion.
Targets(IC50)	Others
In vitro	Nylidrin is a potent antagonist of NR1A/2B receptor expressed in Xenopus oocytes with IC50 = 0.18 μM. Nylidrin inhibits the NMDA response in cultured rat cortical neurons with a potency and mechanism of action similar to that of NR1A/2B receptors. [1] Nylidrin (0, 40, and 400 μM) targets hemagglutinin 2 (HA2) -mediated membrane fusion by blocking the conformational change of HA at acidic pH. [2]
In vivo	In mouse models, preincubation of mouse influenza A virus (H1N1) with Nylidrin completely blocked intranasal viral infection. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3399 mL	16.6995 mL	33.399 mL
5 mM	0.668 mL	3.3399 mL	6.6798 mL
10 mM	0.334 mL	1.670 mL	3.3399 mL
50 mM	0.0668 mL	0.334 mL	0.668 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

Whittemore ER, et al. Subtype-selective antagonism of NMDA receptors by nylidrin. Eur J Pharmacol. 1997 Oct 22; 337(2-3):197-208.

Jang Y, et al. In Vitro and In Vivo Antiviral Activity of Nylidrin by Targeting the Hemagglutinin 2-Mediated Membrane Fusion of Influenza A Virus. Viruses. 2020 May 25;12(5):581.

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