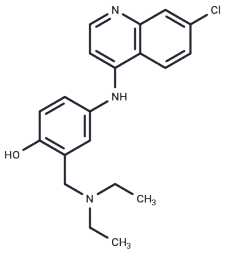
Data Sheet (Cat.No.T8381)

TargetMol

Amodiaquine

Chemical Properties



CAS No. : 86-42-0

Formula: C20H22ClN3O

Molecular Weight: 355.86

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	Amodiaquine is a synthetic aminoquinoline, used to treat malaria.
Targets(IC50)	Histone Methyltransferase,Parasite,NR4A
In vitro	Inflammatory responses are considered to play pivotal roles in the pathogenesis of intracerebral hemorrhage (ICH).?a nuclear receptor Nurr1 (NR4A2) was expressed prominently in microglia/macrophages and astrocytes in the perihematomal region in the striatum of mice after ICH.?Daily administration of a Nurr1 agonist amodiaquine (40 mg/kg, i.p.) from 3 h after ICH induction diminished perihematomal activation of microglia/macrophages and astrocytes.?Amodiaquine also suppressed ICH-induced mRNA expression of IL-1β, CCL2 and CXCL2, and ameliorated motor dysfunction of mice.?These results suggest that Nurr1 serves a novel target for ICH therapy.

Solubility Information

Solubility	DMSO: 71 mg/mL (199.52 mM),Sonication is recommended. Methanol: 50 mg/mL (140.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8101 mL	14.0505 mL	28.1009 mL
5 mM	0.562 mL	2.8101 mL	5.6202 mL
10 mM	0.281 mL	1.405 mL	2.8101 mL
50 mM	0.0562 mL	0.281 mL	0.562 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

Keita, Kinoshita, Kosei,et al. A Nurr1 agonist amodiaquine attenuates inflammatory events and neurological deficits in a mouse model of intracerebral hemorrhage.[J]. Journal of Neuroimmunology, 2019.
Yasuteru Sakurai , Norikazu Sakakibara , Masaaki Toyama,et al.Novel Amodiaquine Derivatives Potently Inhibit Ebola Virus Infection.Antiviral Res. 2018 Dec;160:175-182.