

## Acridine hydrochloride

## Chemical Properties

CAS No. : 17784-47-3

Formula: C<sub>13</sub>H<sub>10</sub>ClN

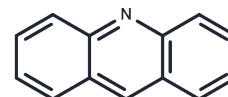
Molecular Weight: 215.68

Keep away from direct sunlight

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.

HCl



## Biological Description

Description	Acridine hydrochloride is a nitrogen-containing cationic fluorescent dye that primarily binds to RNA and DNA and is used in cell cycle research. Acridine derivatives exhibit a range of biological activities, including antibacterial, anticancer, antibiotic, anticholinesterase, antileukaemic, antimalarial, antipsychotic, antidepressant, anti-ageing, and telomerase-inhibiting effects.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6365 mL	23.1825 mL	46.365 mL
5 mM	0.9273 mL	4.6365 mL	9.273 mL
10 mM	0.4636 mL	2.3182 mL	4.6365 mL
50 mM	0.0927 mL	0.4636 mL	0.9273 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

Salehzadeh S, et al. Binding Studies of Isoxsuprine Hydrochloride to Calf Thymus DNA Using Multispectroscopic and Molecular Docking Techniques. *J Fluoresc.* 2018 Jan;28(1):195-206.

Yamane M, et al. Visualization of ceramide channels in lysosomes following endogenous palmitoyl-ceramide accumulation as an initial step in the induction of necrosis. *Biochem Biophys Rep.* 2017 Mar 13;11:174-181.

Li X, et al. Novel Vilazodone-Tacrine Hybrids as Potential Multitarget-Directed Ligands for the Treatment of Alzheimer's Disease Accompanied with Depression: Design, Synthesis, and Biological Evaluation. *ACS Chem Neurosci.* 2017 Dec 20;8(12):2708-2721. doi: 10.1021/acschemneuro.7b00259. Epub 2017 Sep 19. PubMed PMID: 28872831.

Lam HT, et al. Thiomers: Impact of in situ cross-linkers on mucoadhesive properties. *Eur J Pharm Sci.* 2017 Aug 30;106:41-48. doi: 10.1016/j.ejps.2017.05.051. Epub 2017 May 23. PubMed PMID: 28549680.

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