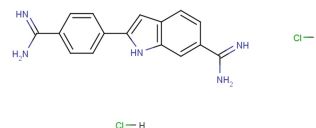


DAPI Dihydrochloride

Chemical Properties

CAS No.:	28718-90-3
Formula:	C ₁₆ H ₁₇ Cl ₂ N ₅
Molecular Weight:	350.24
Appearance:	Clear powder
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	DAPI Dihydrochloride is a cell-permeable fluorescent probe by binding in the minor groove of A-T rich sequences of DNA, used to stain DNA and chromosomes, with a preference for adenine and thymine rich DNA.
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Solubility Information

Solubility	DMSO: Soluble DMSO: 75 mg/mL (214.13 mM) H ₂ O: 8.33 mg/mL (23.78 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.855 mL	14.276 mL	28.552 mL
5 mM	0.571 mL	2.855 mL	5.71 mL
10 mM	0.286 mL	1.428 mL	2.855 mL
50 mM	0.057 mL	0.286 mL	0.571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kapuscinski J, et al. DAPI: a DNA-specific fluorescent probe. *Biotech Histochem*. 1995 Sep;70(5):220-33.
1. Kobayashi D, Shibata A, Oike T, Nakano T. One-step Protocol for Evaluation of the Mode of Radiation-induced Clonogenic Cell Death by Fluorescence Microscopy. *J Vis Exp*. 2017 Oct 23;(128). doi: 10.3791/56338. PubMed PMID: 29155723.
2. Ci L, Huang Z, Liu Y, Liu Z, Wei G, Lu W. Amino-functionalized poloxamer 407 with both mucoadhesive and thermosensitive properties: preparation, characterization and application in a vaginal drug delivery system. *Acta Pharm Sin B*. 2017 Sep;7(5):593-602. doi: 10.1016/j.apsb.2017.03.002. Epub 2017 May 3. PubMed PMID: 28924553; PubMed Central PMCID: PMC5595263.
3. de Oliveira Souza A, Couto-Lima CA, Rosa Machado MC, Espreafico EM, Pinheiro Ramos RG, Alberici LC. Protective action of Omega-3 on paraquat intoxication in *Drosophila melanogaster*. *J Toxicol Environ Health A*. 2017;80(19-21):1050-1063. doi: 10.1080/15287394.2017.1357345. Epub 2017 Aug 29. PubMed PMID: 28849990.
4. Folarin OR, Snyder AM, Peters DG, Olopade F, Connor JR, Olopade JO. Brain Metal Distribution and Neuro-Inflammatory Profiles after Chronic Vanadium Administration and Withdrawal in Mice. *Front Neuroanat*. 2017 Jul 25;11:58. doi: 10.3389/fnana.2017.00058. eCollection 2017. PubMed PMID: 28790895; PubMed Central PMCID: PMC5524677.

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