

AI 3-19500

## Chemical Properties

CAS No. :	523-42-2
Formula:	C <sub>29</sub> H <sub>35</sub> IN <sub>2</sub>
Molecular Weight:	538.506
Storage:	Store at low temperature,Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	AI 3-19500 (Quinoline Blue) is a cyanine dye with CAS 523-42-2 that has been extensively utilized in photographic science to actively enhance film sensitivity through improved light absorption and signal amplification, and it has additionally attracted sustained research interest in oncology and biochemical research as a functional chromophore, where it is systematically investigated for its roles in colorimetric assay development, optical detection workflows, molecular labeling strategies, and photodynamic therapy research aimed at controlled light-induced biological effects.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 40.00 mg/mL (74.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.857 mL	9.2849 mL	18.5698 mL
5 mM	0.3714 mL	1.857 mL	3.714 mL
10 mM	0.1857 mL	0.9285 mL	1.857 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 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

Cooper ME, Gregory S, Adie E, Kalinka S. pH-Sensitive Cyanine Dyes for Biological Applications. Journal of Fluorescence. 2002 Dec 1;12(3):425-9.

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