

Hoechst 34580 tetrahydrochloride

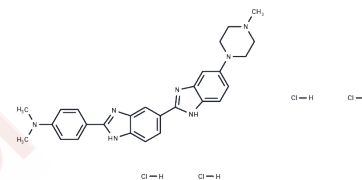
Chemical Properties

CAS No. :

Formula: C₂₇H₃₃Cl₄N₇

Molecular Weight: 597.41

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Hoechst 34580 tetrahydrochloride, a cell-permeable fluorescent dye, is used for staining DNA and nuclei.
Targets(IC50)	Beta Amyloid

Solubility Information

Solubility	H ₂ O: 41.2 mg/mL (68.96 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6739 mL	8.3695 mL	16.7389 mL
5 mM	0.3348 mL	1.6739 mL	3.3478 mL
10 mM	0.1674 mL	0.8369 mL	1.6739 mL
50 mM	0.0335 mL	0.1674 mL	0.3348 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.

Reference

Thai NQ, et al. Discovery of DNA dyes Hoechst 34580 and 33342 as good candidates for inhibiting amyloid beta formation: in silico and in vitro study. J Comput Aided Mol Des. 2016 Aug;30(8):639-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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