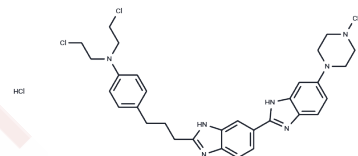


Hoechst 33342 analog trihydrochloride

Chemical Properties

CAS No. :	159277-19-7
Formula:	C32H38Cl3N7
Molecular Weight:	627.05
Storage:	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	Hoechst 33342 analog trihydrochloride, an analog of Hoechst 33342, serves as a fluorochrome by binding to the minor groove of DNA, facilitating the visualization of cellular DNA.
Targets(IC50)	Others, Autophagy
In vitro	Hoechst 33342 selectively interacts with adenine-thymine-rich areas within the DNA's minor groove and serves as a marker for the nuclear DNA of cultured cells. It is detectable through imaging techniques, utilizing an excitation wavelength (λ_{ex}) of approximately 353 nm and an emission wavelength (λ_{em}) of about 483 nm for Hoechst 33342[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5948 mL	7.9738 mL	15.9477 mL
5 mM	0.319 mL	1.5948 mL	3.1895 mL
10 mM	0.1595 mL	0.7974 mL	1.5948 mL
50 mM	0.0319 mL	0.1595 mL	0.319 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

Chazotte B. Labeling nuclear DNA with hoechst 33342. Cold Spring Harb Protoc. 2011 Jan 1;2011(1):pdb.prot5557.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481