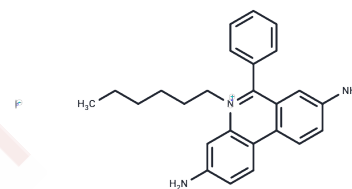


Hexidium iodide

Chemical Properties

CAS No. :	211566-66-4
Formula:	C ₂₅ H ₂₈ IN ₃
Molecular Weight:	497.424
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	Hexidium iodide is a fluorescent nucleic acid stain that selectively permeates mammalian cells and exhibits excitation/emission at approximately 518/600 nm. This compound effectively stains nearly all gram-positive bacteria. Upon permeabilization using EDTA, Hexidium iodide can bind to the DNA of all bacterial species.
Targets(IC50)	Others, Autophagy
In vitro	Hexidium iodide facilitates the evaluation of Gram status by differentially permeating bacterial cell walls, enabling selective staining of gram-positive organisms in suspension[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0104 mL	10.0519 mL	20.1037 mL
5 mM	0.4021 mL	2.0104 mL	4.0207 mL
10 mM	0.201 mL	1.0052 mL	2.0104 mL
50 mM	0.0402 mL	0.201 mL	0.4021 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

- Shanmugam BK, et al. Biodegradation of tannery dye effluent using Fenton's reagent and bacterial consortium: A biocalorimetric investigation. J Environ Manage. 2019;242:106-113.
- Holm C, et al. A flow-cytometric gram-staining technique for milk-associated bacteria. Appl Environ Microbiol. 2003;69(5):2857-2863.

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