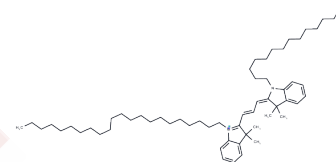


PKH 26

Chemical Properties

CAS No. : 154214-55-8
 Formula: C₅₉H₉₇IN₂
 Molecular Weight: 961.32
 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	PKH 26 is a red-fluorescent membrane dye, Ex/Em=551/567 nm. PKH 26 is commonly used in flow cytometry to measure T cell-mediated cytotoxic activity.
Targets(IC50)	Others
Cell Research	<p>Instructions</p> <p>I. Preparation of stock solution</p> <ol style="list-style-type: none"> 1. Preparation of mother solution: Dissolve PKH26 in DMSO to prepare a 1 mM stock solution. 2. Preparation of working solution: Dilute the PKH26 stock solution to the working concentration using the same diluent. The common final concentration is 2×10^{-6} M. <p>II. Operation steps</p> <ol style="list-style-type: none"> 1. Cell preparation Collect cells and wash with serum-free medium or PBS to remove residual proteins that may interfere with staining; resuspend cells in an appropriate diluent serum-free medium or PBS. 2. Staining steps <ol style="list-style-type: none"> 1) Mix equal volumes of cell suspension and dye solution to achieve the desired final dye concentration. 2) Incubate at room temperature for 20-50 minutes, shaking gently to ensure uniform staining. 3. Stop staining Discard the staining solution, wash 2~3 times with PBS, and resuspend cells in serum-free cell culture medium or PBS. Observe by fluorescence microscopy or flow cytometry. 4. Analysis After staining, assess cell viability and fluorescence intensity using an appropriate method such as flow cytometry. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	DMSO: 1 mg/mL (1.04 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	1.0402 mL	5.2012 mL	10.4024 mL
5 mM	0.208 mL	1.0402 mL	2.0805 mL
10 mM	0.104 mL	0.5201 mL	1.0402 mL
50 mM	0.0208 mL	0.104 mL	0.208 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

Pužar Dominkuš P, et al. PKH26 labeling of extracellular vesicles: Characterization and cellular internalization of contaminating PKH26 nanoparticles. *Biochim Biophys Acta Biomembr.* 2018 Jun;1860(6):1350-1361.

Fischer K, Mackensen A. The flow cytometric PKH-26 assay for the determination of T-cell mediated cytotoxic activity. *Methods.* 2003 Oct;31(2):135-42.

Yadav J, et al. Influence of head and neck cancer exosomes on macrophage polarization. *Cytokine.* 2025 Feb;186:156831.

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