

Product Data Sheet

PKH 26

Cat. No.:HY-D1451CAS No.:154214-55-8Molecular Formula: $C_{59}H_{97}IN_2$ Molecular Weight:961.32

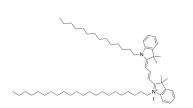
Target: Fluorescent Dye

Pathway: Others

Storage: -20°C, protect from light, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under

nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO: 1.67 mg/mL (1.74 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.0402 mL	5.2012 mL	10.4024 mL
	5 mM			
	10 mM			

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description PKH 26 is a red fluorescent dye, PKH 26 can stably bind to the lipid region of cell membrane and emit red fluorescence

(Ex/Em=551/567 nm), which is mainly used for in vitro cell labeling, in vitro cell proliferation studies and in vivo and in vitro

cell tracing studies^[1].

In Vitro General Protocol

1. Preparation of PKH 26 working solution

 ${\bf 1.1 Preparation\ of\ the\ stock\ solution}$

Dissolve 1 mg PKH 26 in 1 mL DMSO to obtain 1 mM of stock solution.

Note: It is recommended to store the stock solution at -20°C and -80°C away from light and avoid repetitive freeze-thaw cycles.

1.2Preparation of PKH 26 working solution

Dilute the stock solution in serum-free cell culture medium or PBS dilute at 1:50 or 1:100 to obtain 5-10 μ M of working solution.

Note: Please adjust the concentration of PKH 26 working solution according to the actual situation.

2.Cell staining

2.1 Suspension cells⊠6-well plate⊠

- a. Centrifuge at 1000 g at 4° C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time. The cell density is 1×10^6 /mL.
- b.Add 1 mL of working solution, and then incubate at room temperature for 10-45 minutes.
- c.Centrifuge at 400 g at 4°C for 3-4 minutes and then discard the supernatant.
- d. Wash twice with PBS, 5 minutes each time.
- e.Resuspend cells with serum-free cell culture medium or PBS. Observation by fluorescence microscopy or flow cytometry.
- 2.2 Adherent cells
- a. Culture adherent cells on sterile coverslips.
- b. Remove the coverslip from the medium and aspirate excess medium.
- c. Add 100 μ L of working solution, gently shake it to completely cover the cells,and then incubate at room temperature for 5-30 minutes.
- d. Wash twice with medium, 5 minutes each time. Observation by fluorescence microscopy or flow cytometry.

Storage

-80°C, 1 year

Protect from light

Precautions

- 1. Please adjust the concentration of PKH 26 working solution according to the actual situation.
- 2. This product is for R&D use only, not for drug, household, or other uses.
- 3. For your safety and health, please wear a lab coat and disposable gloves to operate.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Pharmaceutics. 2023 Oct 13, 15(10), 2456.
- FASEB J. 2023 Mar;37(3):e22821.
- Oncol Lett. 2023 Nov 16.
- Organogenesis. 2023 Dec 31;19(1):2285836.
- Research Square Preprint. 2023 Apr 12.

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REFERENCES

[1]. Fischer K, et al. The flow cytometric PKH-26 assay for the determination of T-cell mediated cytotoxic activity. Methods. 2003;31(2):135-142.

Caution: Product has not been fully validated for medical applications. For research use only.

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