

# Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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#### SZABO-SCANDIC HandelsgmbH

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## **PKH 67**

Cat. No.:	HY-D1421
CAS No.:	257277-27-3
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-80°C, protect from light

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# PKH67

Description       PKH67 is a fluorescent cell binding dye with green fluorescence. PKH67 can stain the cell membrane and the Ex/Em is	
490/502 nm. PKH67 is often used in combination with the non-specific red fluorescent dye PKH26 (Ex/Em=551/567 nm) t label cells, detect cell proliferation in vitro, and trace cells in vitro and in vivo <sup>[1][2]</sup> .	to
<ul> <li>In Vitro         <ol> <li>Preparation of dyeing solution</li> <li>Take out the PKH 67 reagent from the refrigerator, let it stand for a few minutes to reach room temperature, or after a while in a 37°C water bath, centrifuge the tube containing PKH 67. Please be sure to centrifuge the tube for a few minute allow the reagent to fully dissolve before opening the cap. The lid can only be opened after it falls into the bottom of the tube.</li> <li>(2) According to the number of cell samples to be detected, dilute the probe 10 times with diluent, and then dilute the P for solution 25 times with a suitable solution (such as serum-free medium, HBS or PBS) to prepare Dyeing working solut Please adjust the optimal working solution concentration according to different cells and your own experimental system Generally, cells can be diluted 250 times according to the final concentration of the liquid in the kit. Some cells may need increase the concentration appropriately.</li> <li>Cell staining</li></ol></li></ul>	a es to e YKH ution. m. ed to /mL. and and um, ed by ental

(2) The prepared PKH 67 liquid is very easy to hydrolyze. It is recommended to store it in separate packages and freeze and dry it at  $\mathbb{Z}$ -20°C.

(3) PKH 67 working solution should be prepared for immediate use and cannot be prepared in advance, because PKH 67 will decompose when absorbing water and affect the dyeing effect.

(4) PKH 67 is easily hydrolyzed and will deteriorate quickly in aqueous solution. Please avoid contact with water during use. The working fluid is in contact with water within the permitted time range during the process of labeling cells.

(5) PKH 67 fluorescent dye is an alcoholic solution. It will solidify and stick to the bottom, wall or lid of the centrifugation tube at lower temperatures such as 4°C or ice bath. It will recover after being taken out of the refrigerator. After it reaches room temperature and becomes liquid, centrifuge it to the bottom of the tube before opening the lid. It can be used after immersing it in a 37°C water bath until it is completely dissolved.

(6) The passages or times that can be traced after labeling for different cell types vary greatly. Please conduct testing based on the actual situation or reference literature.

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

#### **CUSTOMER VALIDATION**

- Theranostics. 2025 Jan 1;15(1):86-102.
- Life Sci. 2024 Jun 6:122787.
- Immun Inflamm Dis. 2024 Mar;12(3):e1155.

See more customer validations on www.MedChemExpress.com

#### REFERENCES

[1]. Shi J, et al. A genome-wide CRISPR screen identifies WDFY3 as a regulator of macrophage efferocytosis. Nat Commun. 2022 Dec 24;13(1):7929.

[2]. He L, et al. Intelligent manganese dioxide nanocomposites induce tumor immunogenic cell death and remould tumor microenvironment[J]. Chemical Engineering Journal, 2023: 141369.

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

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