

PKH 67

Cat. No.:	HY-D1421		
CAS No.:	257277-27-3		
Target:	Fluorescent Dye		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

PKH67

BIOLOGICAL ACTIVITY

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) to label cells, detect cell proliferation in vitro, and trace cells in vitro and in vivo ^{[1][2]} .
In Vitro	Cell labeling protocol for efferocytosis assay (Jurkat cells, for example) ^[1] : 1. Induce cell apoptosis with 5 µg/mL Staurosporine (HY-15141) in RPMI-1640 medium for 3 h at a density of 2.5×10 ⁶ cells/mL at 37°C, 5% CO ₂ . 2. Wash Jurkat cells in 1X DPBS, and resuspend cells at a concentration of 2×10 ⁷ cells/mL in Diluent C with either PKH67 (green fluorescence) or PKH26 (red fluorescence). 3. Rinse cells twice with DMEM basal medium containing 10% HI-FBS. Prepared cells should be immediately used for efferocytosis assay. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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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