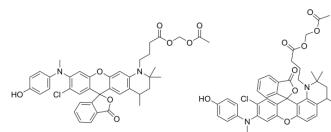


HKYellow-AM (6/12-mixture)

Cat. No.:	HY-130013
CAS No.:	1448821-89-3
Molecular Formula:	C ₈₀ H ₇₈ Cl ₂ N ₄ O ₁₆
Molecular Weight:	1422.4
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 130 mg/mL (91.39 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.7030 mL	3.5152 mL	7.0304 mL
		5 mM	0.1406 mL	0.7030 mL	1.4061 mL
	10 mM	0.0703 mL	0.3515 mL	0.7030 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 3.25 mg/mL (2.28 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 3.25 mg/mL (2.28 mM); Suspended solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	HKYellow-AM (6/12-mixture) is a yellow fluorescent probe that can detect ONOO ⁻ in living cells and tissues with high selectivity and sensitivity without cytotoxicity ^[2] .
In Vitro	<ol style="list-style-type: none"> Preparation of HKYellow-AM (6/12-mixture) working solution <ol style="list-style-type: none"> Preparation of the stock solution Dissolve 1 mg HKYellow-AM (6/12-mixture) in 70 μL DMSO to obtain 10 mM of stock solution. Note: It is recommended to store the stock solution at -20°C -80°C away from light and avoid repetitive freeze-thaw cycles. Preparation of HKYellow-AM (6/12-mixture) working solution Dilute the stock solution in serum-free cell culture medium or PBS to obtain 1-10 μM of working solution. Note: Please adjust the concentration of HKYellow-AM (6/12-mixture) working solution according to the actual situation. 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 5-30 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.
- MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Trends Cell Biol. 2007 Sep;17(9):422-7. doi: 10.1016/j.tcb.2007.07.009. Epub 2007 Sep 4.
 - [2]. Yang D, et, al. Diarylamine-based fluorogenic probes for detection of peroxynitrite. EP2809666B1.
 - [3]. Yang D, et, al. Diarylamine-based fluorogenic probes for detection of peroxynitrite. EP2809666B1.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA