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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

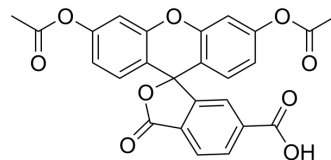
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

6-CFDA

Cat. No.:	HY-D0721
CAS No.:	3348-03-6
Molecular Formula:	C ₂₅ H ₁₆ O ₉
Molecular Weight:	460.39
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (217.21 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1721 mL	10.8604 mL	21.7207 mL
		5 mM	0.4344 mL	2.1721 mL	4.3441 mL
		10 mM	0.2172 mL	1.0860 mL	2.1721 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: ≥ 2.5 mg/mL (5.43 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.43 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.43 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	6-CFDA is a common aliphatic luciferin-line organism. CFDA conducts free diffusion into cells, and then it is hydrolyzed into carboxyl fluorescein (CF) by intracellular non-specific lipase. CF containing portion contains an additional negative charge so that it is better retained in cells, compared to fluorescein dyes ^{[1][2][3][4]} .
In Vitro	Preparation of 6-CFDA working solution <ol style="list-style-type: none"> Preparation of the stock solution Dissolve 1mg 6-CFDA in 0.2172 mL DMSO to obtain 10 mM of 6-CFDA. 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 6-CFDA working solution

Dilute the stock solution in serum-free cell culture medium or PBS to obtain 1-10 μM of 6-CFDA working solution.
Note: Please adjust the concentration of 6-CFDA working solution according to the actual situation.

Cell staining

1. Cell preparation:

For suspension cells: Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time.

For adherent cells: Discard the cell culture medium, and add trypsin to dissociate cells to make a single-cell suspension. Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time.

2. Add 1 mL of 6-CFDA working solution, and then incubate at room temperature for 30 minutes.

3. Centrifuge at 400 g at 4°C for 3-4 minutes and then discard the supernatant.

4. Wash twice with PBS, 5 minutes each time.

5. Resuspend cells with serum-free cell culture medium or PBS, and then detect by fluorescence microscope or flow cytometer.

Precautions

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

2. Please adjust the concentration of 6-CFDA working solution according to the actual situation.

3. This product is for R&D use only, not for drug, household, or other uses.

4. 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.

REFERENCES

- [1]. Yang T, et al. A novel nonradioactive CFDA assay to monitor the cellular immune response in myeloid leukemia. *Immunobiology*. 2013 Apr;218(4):548-53.
- [2]. Card SD, et al. Assessment of fluorescein-based fluorescent dyes for tracing *Neotryphodium* endophytes in planta. *Mycologia*. 2013 Jan-Feb;105(1):221-9.
- [3]. Fang X, et al. Bone marrow-derived endothelial progenitor cells are involved in aneurysm repair in rabbits. *J Clin Neurosci*. 2012 Sep;19(9):1283-6.

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