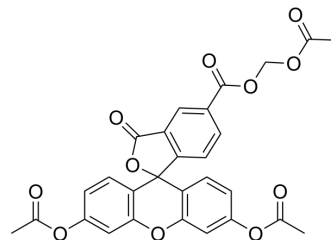


5-CFDA-AM

Cat. No.:	HY-131131
CAS No.:	124412-00-6
Molecular Formula:	C ₂₈ H ₂₀ O ₁₁
Molecular Weight:	532.45
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 : 125 mg/mL (234.76 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8781 mL	9.3906 mL	18.7811 mL
	5 mM	0.3756 mL	1.8781 mL	3.7562 mL
	10 mM	0.1878 mL	0.9391 mL	1.8781 mL

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

BIOLOGICAL ACTIVITY

Description

5-CFDA-AM is a cell-permeable esterase substrate that can be used as an active probe to measure enzyme activity and cell membrane integrity. 5-CFDA-AM is electroneutral and can enter the cell at a lower concentration than CFDA, where it is hydrolysed by intracellular esterases to produce carboxyfluorescein. Carboxyfluorescein contains an additional negative charge and can be better retained in the cell^[1].

REFERENCES

[1]. Elena Gorokhova, et al. A comparison of TO-PRO-1 iodide and 5-CFDA-AM staining methods for assessing viability of planktonic algae with epifluorescence microscopy. J Microbiol Methods. 2012 Jun;89(3):216-21.

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