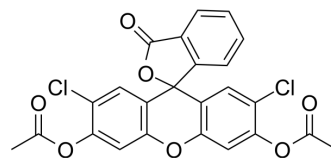


2',7'-Dichlorofluorescein diacetate

Cat. No.:	HY-126793
CAS No.:	2044-85-1
Molecular Formula:	C ₂₄ H ₁₄ Cl ₂ O ₇
Molecular Weight:	485.27
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (68.68 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.0607 mL	10.3035 mL	20.6071 mL
				5 mM	0.4121 mL	2.0607 mL	4.1214 mL
				10 mM	0.2061 mL	1.0304 mL	2.0607 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.15 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	2',7'-Dichlorofluorescein diacetate (DCFH2-DA) is a cell-permeable fluorescent probe. 2',7'-Dichlorofluorescein diacetate can be used to detect the generation of reactive oxygen intermediates and for assessing the overall oxidative stress in toxicological phenomenon ^[1] .
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CUSTOMER VALIDATION

- Sci Total Environ. 2023 Dec 30;913:169682.
- Drug Chem Toxicol. 2023 Feb 23;1-9.
- SSRN. 2023 Sep 13.
- SSRN. 15 Dec 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Afri M, et al. Active oxygen chemistry within the liposomal bilayer. Part IV: Locating 2',7'-dichlorofluorescein (DCF), 2',7'-dichlorodihydrofluorescein (DCFH) and 2',7'-dichlorodihydrofluorescein diacetate (DCFH-DA) in the lipid bilayer. Chem Phys Lipids. 2004 Aug;131(1):123-33.

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