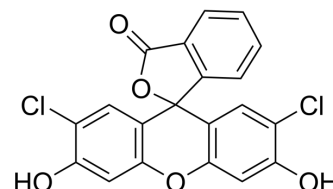


2',7'-Dichlorofluorescein

Cat. No.:	HY-W040143
CAS No.:	76-54-0
Molecular Formula:	C ₂₀ H ₁₀ Cl ₂ O ₅
Molecular Weight:	401.2
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 : 125 mg/mL (311.57 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4925 mL	12.4626 mL	24.9252 mL
	5 mM		0.4985 mL	2.4925 mL	4.9850 mL
	10 mM		0.2493 mL	1.2463 mL	2.4925 mL

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

BIOLOGICAL ACTIVITY

Description

2',7'-Dichlorofluorescein acts as a fluorescent probe (Ex=496 nm and Em=525 nm) for reactive oxygen species (ROS) measurement^[1].

REFERENCES

- [1]. Reiniers MJ, et al. Preparation and Practical Applications of 2',7'-Dichlorodihydrofluorescein in Redox Assays. Anal Chem. 2017 Apr 4;89(7):3853-3857.
- [2]. Xiuping Chen, et al. 2',7'-Dichlorodihydrofluorescein as a fluorescent probe for reactive oxygen species measurement: Forty years of application and controversy. Free Radic Res. 2010 Jun;44(6):587-604.

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

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