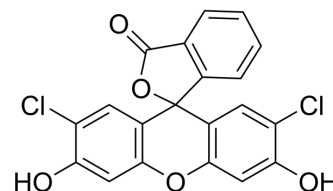


## 2',7'-Dichlorofluorescein

Cat. No.:	HY-W040143
CAS No.:	76-54-0
Molecular Formula:	C <sub>20</sub> H <sub>10</sub> Cl <sub>2</sub> O <sub>5</sub>
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)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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<sup>[1]</sup>.

### 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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