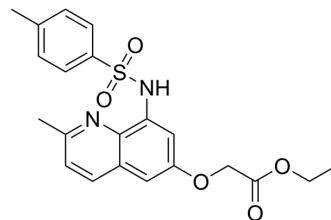


## Zinquin ethyl ester

Cat. No.:	HY-124171
CAS No.:	181530-09-6
Molecular Formula:	C <sub>21</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub> S
Molecular Weight:	414.47
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 : ≥ 50 mg/mL (120.64 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic) (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.4127 mL	12.0636 mL	24.1272 mL
	5 mM		0.4825 mL	2.4127 mL	4.8254 mL
	10 mM		0.2413 mL	1.2064 mL	2.4127 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: 5 mg/mL (12.06 mM); Suspended solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Zinquin ethyl ester is a fluorescent derivative of Zinquin and is a fluorescent probe of cytosolic zinc. Zinquin ethyl ester is able to penetrate cell membranes and is lipophilic and zinc-sensitive. Zinquin ethyl ester can combine with Zn<sup>2+</sup> in the presence of Ca<sup>2+</sup> and Mg<sup>2+</sup> to produce blue fluorescence<sup>[1]</sup>.

### REFERENCES

[1]. Kevyn E Merten, et al. Zinc inhibits doxorubicin-activated calcineurin signal transduction pathway in H9c2 embryonic rat cardiac cells. *Exp Biol Med* (Maywood). 2007 May;232(5):682-9.

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

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