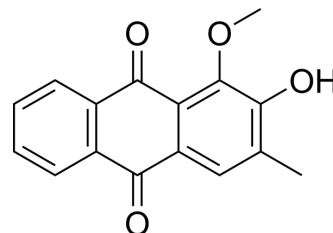


## Digitolutein

Cat. No.:	HY-121211
CAS No.:	477-86-1
Molecular Formula:	C <sub>16</sub> H <sub>12</sub> O <sub>4</sub>
Molecular Weight:	268.26
Target:	Parasite
Pathway:	Anti-infection
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	Ethanol : 30 mg/mL (111.83 mM; Need ultrasonic and warming)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	3.7277 mL	18.6386 mL	37.2773 mL	
		5 mM	0.7455 mL	3.7277 mL	7.4555 mL	
		10 mM	0.3728 mL	1.8639 mL	3.7277 mL	
Please refer to the solubility information to select the appropriate solvent.						

### BIOLOGICAL ACTIVITY

Description	Digitolutein is a natural product that can be isolated from the stem bark and the roots of <i>Morinda lucida</i> Benth. Digitolutein effectively inhibits the growth of <i>Plasmodium falciparum</i> with an IC <sub>50</sub> value of 12.92 µg/mL. Digitolutein can be used for the research of infection <sup>[1]</sup> .
IC <sub>50</sub> & Target	Plasmodium
In Vitro	Digitolutein inhibits 18.5, 43.23, 53.18, 60.76, 75.98 and 82.51% the growth of <i>P. falciparum</i> at doses of 0, 5, 15, 20, 25 and 30 µg/mL, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Koumaglo K, et al. Effects of three compounds extracted from *Morinda lucida* on *Plasmodium falciparum*. *Planta Med.* 1992 Dec;58(6):533-4.

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

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