

Dihydrochelerythrine

Catalog No: tcsc3820



Available Sizes

Size: 5mg

Size: 10mg



Specifications

CAS No:

6880-91-7

Formula:

$C_{21}H_{19}NO_4$

Pathway:

Anti-infection

Target:

Fungal

Purity / Grade:

>98%

Solubility:

DMSO : 50 mg/mL (143.11 mM; Need ultrasonic and warming)

Alternative Names:

12,13-Dihydrochelerythrine

Observed Molecular Weight:

349.38

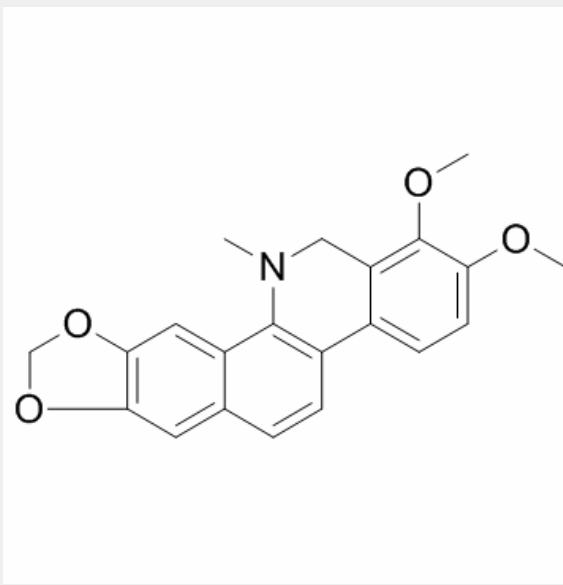
Product Description

Dihydrochelerythrine is a natural compound isolated from the leaves of *Macleaya microcarpa*; has antifungal activity.

IC50 value:

Target:

in vitro: Dihydrochelerythrine showed the highest antifungal activity against *B. cinerea* Pers, with 98.32% mycelial growth inhibition at 50 µg/mL. Dihydrochelerythrine inhibited spore germination in vitro in a concentration-dependent manner [1]. Dihydrochelerythrine appeared to be less cytotoxic since the viability of cells exposed to 20 microM dihydrochelerythrine for 24h was reduced only to 53%. A dose-dependent induction of apoptosis and necrosis by chelerythrine and dihydrochelerythrine was confirmed by annexin V/propidium iodide dual staining flow cytometry [2]. Dihydrochelerythrine (4) exhibited strong activity against methicillin-resistant *Staphylococcus aureus* SK1 and moderate activity against *Escherichia coli* TISTR 780 with MIC values of 8 and 16 µg/mL, respectively [3].



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