Diosbulbin B

Cat. No.: HY-N0429

CAS No.: 20086-06-0

Molecular Formula: $C_{19}H_{20}O_6$

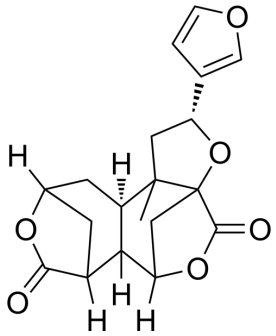
Molecular Weight: 344.36

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16 mg/mL (46.46 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9039 mL	14.5197 mL	29.0394 mL
	5 mM	0.5808 mL	2.9039 mL	5.8079 mL
	10 mM	0.2904 mL	1.4520 mL	2.9039 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.33 mg/mL (3.86 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.33 mg/mL (3.86 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.33 mg/mL (3.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Diosbulbin B is a diterpene lactone isolated from D. bulbifera L., with anti-tumor activity. Diosbulbin B can induce liver injury [1][2].

IC_{50} & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Medicine. 2023 Dec 22;102(51):e36771.

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REFERENCES

[1]. Wang JM, et al. Ferulic acid prevents liver injury and increases the anti-tumor effect of diosbulbin B in vivo. J Zhejiang Univ Sci B. 2014 Jun;15(6):540-7.

[2]. Ma Y, et al. Diosbulbin B-induced liver injury in mice and its mechanism. Hum Exp Toxicol. 2014 Jul;33(7):729-36.

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