## Isocorydine

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MedChemExpress

Cat. No.:	HY-N2591
CAS No.:	475-67-2
Molecular Formula:	C <sub>20</sub> H <sub>23</sub> NO <sub>4</sub>
Molecular Weight:	341.4
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	<b>4°C, protect from light</b> * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## 

**Product** Data Sheet

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## SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (58.58 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.9291 mL	14.6456 mL	29.2912 mL		
		5 mM	0.5858 mL	2.9291 mL	5.8582 mL		
		10 mM	0.2929 mL	1.4646 mL	2.9291 mL		
	Please refer to the sol	ubility information to select the ap	opropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.32 mM); Clear solution						
	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil</li> <li>Solubility: ≥ 2.5 mg/mL (7.32 mM); Clear solution</li> </ol>						
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (5.86 mM); Clear solution						

BIOEOGICAE ACTIV				
Description	Isocorydine is isolated from Dicranostigma leptopodum (Maxim.) Fedde (DLF). Isocorydine combines with Doxorubicin (DOX) has a promising potential to eradicate hepatocellular carcinoma (HCC) <sup>[1]</sup> .			
IC <sub>50</sub> & Target	Human Endogenous Metabolite			
In Vitro	Isocorydine (0-400 ug/ml; 48 hours) show a significant decrease in the IC50 for ICD and DOX, the CI values are 0.605, 0.644, 0.804, and 0.707 respectively for Huh-7, Hep-G2, SNU-449 and SNU-387 <sup>[1]</sup> . Isocorydine (0-400 ug/ml; 48 hours) abrogates DOX-induced upregulation of mesenchymal markers and the downregulation of epithelial markers in human HCC cell lines <sup>[1]</sup> .			

	MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>					
	Cell Line:	Huh-7, Hep-G2 , SNU-387, SNU-449 cells				
	Concentration:	0-400 ug/ml				
	Incubation Time:	24 hours				
	Result:	Had a higher cytotoxicity in HCC cells in comparison to ICD or DOX alone.				
	Western Blot Analysis <sup>[1]</sup>	Western Blot Analysis <sup>[1]</sup>				
	Cell Line:	Huh-7, Hep-G2 , SNU-387, SNU-449 cells				
	Concentration:					
	Incubation Time:	24 hours				
	Result:	Downregulated protein levels of Claundin-1 and E-cadherin.				
In Vivo	Isocorydine (intraperitoneal injection; 0.4 mg/kg; every 2 days for 2 weeks) retards the tumor growth, but the combined treatment of Doxorubicin (DOX) or ICD significantly inhibits tumor growth <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
	Animal Model:	Female nude mice <sup>[1]</sup>				
	Dosage:	0.4 mg/ml				
	Administration:	Injected intraperitoneally every 2 days for 2 weeks				
	Result:	Combined treatment of isocorydine and DOX showed a promising potential to eradicate HCC.				

## REFERENCES

[1]. Pan JX, et al. Isocorydine suppresses doxorubicin-induced epithelial-mesenchymal transition via inhibition of ERK signaling pathways in hepatocellular carcinoma. Am J Cancer Res. 2018 Jan 1;8(1):154-164. eCollection 2018.

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

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