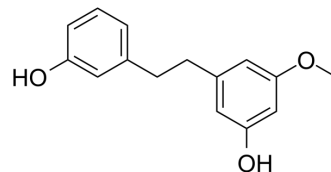


Batatasin III

Cat. No.:	HY-122965
CAS No.:	56684-87-8
Molecular Formula:	C ₁₅ H ₁₆ O ₃
Molecular Weight:	244.29
Target:	FAK; Akt
Pathway:	Protein Tyrosine Kinase/RTK; PI3K/Akt/mTOR
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (409.35 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>4.0935 mL</td> <td>20.4675 mL</td> <td>40.9350 mL</td> </tr> <tr> <td>5 mM</td> <td>0.8187 mL</td> <td>4.0935 mL</td> <td>8.1870 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4093 mL</td> <td>2.0467 mL</td> <td>4.0935 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	4.0935 mL	20.4675 mL	40.9350 mL	5 mM	0.8187 mL	4.0935 mL	8.1870 mL	10 mM	0.4093 mL	2.0467 mL	4.0935 mL
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	Please refer to the solubility information to select the appropriate solvent.																	
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (10.23 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.23 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.23 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	Batatasin III, a stilbenoid, inhibits cancer migration and invasion by suppressing epithelial to mesenchymal transition (EMT) and FAK-AKT signals. Batatasin III has anti-cancer activities ^[1] .
In Vitro	<p>Batatasin III (25-100 μM; 48 h) exhibits anti-proliferative activity in H460 cells. Batatasin III at concentrations lower than 100 μM has no cytotoxic effects^[1].</p> <p>Batatasin III significantly suppresses EMT indicated by the decrease of N-cadherin and Vimentin, and up-regulation of E-cadherin^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Tatchakorn Pinkhien, et al. Batatasin III Inhibits Migration of Human Lung Cancer Cells by Suppressing Epithelial to Mesenchymal Transition and FAK-AKT Signals. Anticancer Res. 2017 Nov;37(11):6281-6289.

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

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