

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Oenothein B

Cat. No.:	HY-N7765
CAS No.:	104987-36-2
Molecular Formula:	C ₆₈ H ₄₈ O ₄₄
Molecular Weight:	1569.08
Target:	HCV; Apoptosis; Bacterial; Fungal
Pathway:	Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Product Data Sheet

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutior	eparing ock Solutions	1 mM	0.6373 mL	3.1866 mL	6.3732 mL
		5 mM	0.1275 mL	0.6373 mL	1.2746 mL
	10 mM	0.0637 mL	0.3187 mL	0.6373 mL	

BIOLOGICAL ACTIV	
DIOLOGICAL ACTIV	
Description	Oenothein B is a dimeric macrocyclic ellagitannin and has widely pharmacological activities, including antioxidant, anti- inflammatory, antifungal, anti-HCV, and antitumor properties. Oenothein B is a potent and specific inhibitor of poly(ADP- ribose) glycohydrolase ^{[1][2]} .
In Vitro	 Oenothein B (15-45 µM; 12-72 hours) has a dose- and time-dependent inhibition rate effect on A549 cells in the range of 12 hours, 24 hours, 36 hours, 48 hours, 60 hours and 72 hours of exposure^[1]. Oenothein B (15-45 µM; 24 hours) effectively inhibits the proliferation of A549 cells by inducing apoptosis and arresting cells at G1 stage^[1]. Oenothein B (15-45 µM; 24 hours) not only increases the level of intracellular reactive oxygen species (ROS), but also induces the upregulation of intracellular apoptotic triggers (cleavage caspase-3, PARP, cytochrome c level in the cytosol, Bax)^[1]. A549 cells^[1]15 µM, 30 µM and 45 µM24 hoursArrested cells in the G1 phase.A549 cells^[1]15 µM, 30 µM and 45 µM24 hoursBAX, p53, cytochrome c (cytoplasm) and PARP were unregulated significantly; Anti-apoptotic Bcl-2 was decreased significantly in a concentration-dependent manner. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[1]



	A549 cells		
Concentration:	15 μM, 30 μM and 45 μM		
Incubation Time:	12 hours, 24 hours, 36 hours, 48 hours, 60 hours and 72 hours		
Result:	Effectively inhibited the proliferation of A549 cells.		
Apoptosis Analysis ^[1]			
Cell Line:	A549 cells		
Concentration:	15 μM, 30 μM and 45 μM		
Incubation Time:	24 hours		
Result:	Induced apoptosis in A549 cells.		
Cell Cycle Analysis ^[1]			
Cell Line:	A549 cells		
Concentration:	15 μM , 30 μM and 45 μM		
Incubation Time:	24 hours		
Result:	Arrested cells in the G1 phase.		
Western Blot Analysis ^[1]			
Cell Line:	A549 cells		
Concentration:	15 μM, 30 μM and 45 μM		
Incubation Time:	24 hours		
Result:	BAX, p53, cytochrome c (cytoplasm) and PARP were unregulated significantly; Ant apoptotic Bcl-2 was decreased significantly in a concentration-dependent manne		

REFERENCES

In Vivo

[1]. Xiaodong Pei, et al. Oenothein B inhibits human non-small cell lung cancer A549 cell proliferation by ROS-mediated PI3K/Akt/NF-κB signaling pathway. Chem Biol Interact. 2019 Jan 25;298:112-120.

[2]. Satoru Tamura, et al. Oenothein B, dimeric hydrolysable tannin inhibiting HCV invasion from Oenothera erythrosepala. J Nat Med. 2019 Jan;73(1):67-75.

[3]. Satoshi Okuyama, et al. Oenothein B suppresses lipopolysaccharide (LPS)-induced inflammation in the mouse brain. Int J Mol Sci. 2013 May 7;14(5):9767-78.

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

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