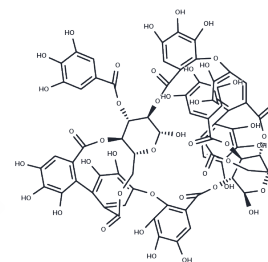


Oenothain B

Chemical Properties

CAS No. :	104987-36-2
Formula:	C ₆₈ H ₄₈ O ₄₄
Molecular Weight:	1569.08
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Oenothain B is a specific inhibitor of poly(ADP-ribose) glycohydrolase. Oenothain B shows antioxidant, anti-inflammatory, antifungal, anti-HCV, and antitumor properties.
Targets(IC50)	Apoptosis,HCV Protease,Antibacterial,Antifungal
In vitro	Oenothain B (15-45 μM; 24 hours) increased intracellular reactive oxygen species (ROS) and upregulated apoptotic triggers (cleavage caspase-3, PARP, cytosolic cytochrome c, Bax). Oenothain B (15-45 μM) demonstrated a dose- and time-dependent inhibition on A549 cells over 12-72 hours, inhibiting their proliferation by inducing apoptosis and arresting cells at the G1 stage[3].
In vivo	In ICR mice, Oenothain B (100-300 mg/kg; p.o.) reduced neuroinflammation in the brain during systemic inflammation[2].

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0127 mL	0.0637 mL	0.1275 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Lee E J, Kim Y S, Kim J H, et al. Uncovering the colorectal cancer immunotherapeutic potential: Evening primrose (*Oenothera biennis*) root extract and its active compound oenothain B targeting the PD-1/PD-L1 blockade. *Phytomedicine*. 2024: 155370.

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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481