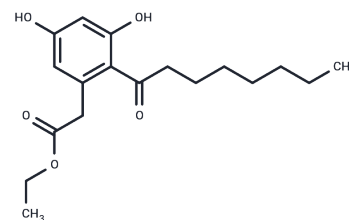


Cytosporone B

Chemical Properties

CAS No. :	321661-62-5
Formula:	C ₁₈ H ₂₆ O ₅
Molecular Weight:	322.4
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cytosporone B (Dothiorelone G) is a naturally occurring agonist for the nuclear receptor Nur77 (IC ₅₀ = 0.278 nM). Activation of Nur77 with cytosporone B induces the expression of Nur77-dependent genes, including the gene for Nur77 itself. Signaling through Nur77 induces apoptosis in cancer cells and retards xenograft tumor growth. It also induces genes related to gluconeogenesis and decreases atherosclerosis progression in mice fed a high fat and high cholesterol diet. Cytosporone B is brain penetrant and aggravates early brain injury in rats when given (13 mg/kg intraperitoneally) after experimentally-induced subarachnoid hemorrhage. Cytosporone B also has antibacterial properties.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 32.2 mg/mL(100 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1017 mL	15.5087 mL	31.0174 mL
5 mM	0.6203 mL	3.1017 mL	6.2035 mL
10 mM	0.3102 mL	1.5509 mL	3.1017 mL
50 mM	0.062 mL	0.3102 mL	0.6203 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.

Reference

Zhan, Y. , et al. Cytosporone B is an agonist for nuclear orphan receptor Nur77. Nature Chemical Biology 4, 548-556 (2008).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481