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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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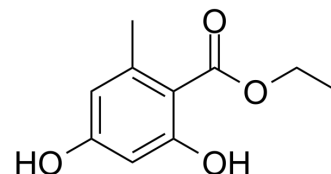
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Ethyl Orsellinate

Cat. No.:	HY-W000427
CAS No.:	2524-37-0
Molecular Formula:	C ₁₀ H ₁₂ O ₄
Molecular Weight:	196.2
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (509.68 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		5.0968 mL	25.4842 mL	50.9684 mL
		5 mM		1.0194 mL	5.0968 mL	10.1937 mL
		10 mM		0.5097 mL	2.5484 mL	5.0968 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Ethyl orsellinate is a lichen metabolite and a derivative of lecanoric acid with antiproliferative and antitumour activities ^[1] . Ethyl Orsellinate is against A. salina for the cytotoxic activity with an LC ₅₀ of 495 μM ^[2] .
In Vitro	Ethyl Orsellinate (0-50 μg/ml; 48 hours) inhibits Hep-2 cells, MCF-7 breast cancer cells, and 786-0 kidney carcinoma cells, as well as B16-F10 murine melanoma and non-cancerous Vero cells (IC ₅₀ s=31.2, 70.3, 47.5, 64.8, and 28.1 μg/ml, respectively) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Bogo D, et al. In vitro antitumour activity of orsellinates. Z Naturforsch C. 2010 Jan-Feb;65(1-2):43-8.
- [2]. Gomes AT, et al. Cytotoxic activity of orsellinates. Z Naturforsch C. 2006 Sep-Oct;61(9-10):653-7.
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Caution: Product has not been fully validated for medical applications. For research use only.

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