



# SZABO SCANDIC

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## Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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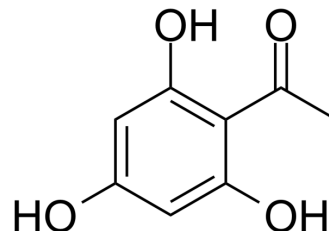
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## Phloracetophenone

<b>Cat. No.:</b>	HY-W008226		
<b>CAS No.:</b>	480-66-0		
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	168.15		
<b>Target:</b>	Cytochrome P450; Bacterial; Antibiotic		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (148.68 mM; Need ultrasonic)  
 H<sub>2</sub>O : 2 mg/mL (11.89 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.9471 mL	29.7354 mL	59.4707 mL
	5 mM	1.1894 mL	5.9471 mL	11.8941 mL
	10 mM	0.5947 mL	2.9735 mL	5.9471 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 1.25 mg/mL (7.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 1.25 mg/mL (7.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 1.25 mg/mL (7.43 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Phloracetophenone (2,4,6-trihydroxyacetophenone) is the aglycone part of acetophenone glycoside obtained from *Curcuma comosa* Roxb, with cholesterol-lowering activity. Phloracetophenone enhances cholesterol 7α-hydroxylase (CYP7A1) activity [1]. Phloracetophenone stimulates bile secretion mediated through Mrp2 [2].

#### IC<sub>50</sub> & Target

Cholesterol 7α-hydroxylase [1], Mrp2 [2]

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<b>In Vitro</b>	<p>Phloracetophenone (2,4,6-trihydroxyacetophenone) is a cholesterol-lowering agent, enhances cholesterol 7<math>\alpha</math>-hydroxylase (CYP7A1) activity, and elevates CYP7A1 mRNA level<sup>[1]</sup>.</p> <p>Phloracetophenone (1, 2, and 4 <math>\mu</math>mol/min) immediately and dose-dependently increases bile acid-independent bile flow in the isolated perfused rat liver<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
<b>In Vivo</b>	<p>Phloracetophenone (2,4,6-trihydroxyacetophenone; 125 or 250 <math>\mu</math>mol/kg, intraduodenal injection) shows choleric activity requiring multidrug resistance protein-2 (Mrp2) in rats. Phloracetophenone (40 <math>\mu</math>mol/min) partially prevents the E2-17G induced cholestasis<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## REFERENCES

- [1]. Charoenteeraboon J, et al. Induction of human cholesterol 7 $\alpha$ -hydroxylase in HepG2 cells by 2,4,6-trihydroxyacetophenone. *Eur J Pharmacol.* 2005 May 16;515(1-3):43-6.
- [2]. Piyachaturawat P, et al. Choleric activity of phloracetophenone in rats: structure-function studies using acetophenone analogues. *Eur J Pharmacol.* 2000 Jan 10;387(2):221-7.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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