



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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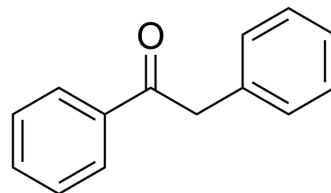
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## 2-Phenylacetophenone

<b>Cat. No.:</b>	HY-Y1777		
<b>CAS No.:</b>	451-40-1		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>12</sub> O		
<b>Molecular Weight:</b>	196.24		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (509.58 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	5.0958 mL	25.4790 mL	50.9580 mL
		5 mM	1.0192 mL	5.0958 mL	10.1916 mL
10 mM		0.5096 mL	2.5479 mL	5.0958 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	2-Phenylacetophenone has broad-spectrum efflux pump inhibition activity. 2-Phenylacetophenone is a benzoin derivative used as a photoinitiator in vinyl polymerization <sup>[1]</sup> .
<b>In Vitro</b>	<p>2-Phenylacetophenone displays antibacterial activity against <i>B. subtilis</i>, <i>M. smegmatis</i>, and <i>M. aurum</i> with MICs of 500 µg/mL<sup>[1]</sup>.</p> <p>2-Phenylacetophenone (1000 µg/mL) inhibits biofilm formation for <i>M. smegmatis</i><sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## REFERENCES

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[1]. Hellewell L, et al. Chalcones, stilbenes and ketones have anti-infective properties via inhibition of bacterial drug-efflux and consequential synergism with antimicrobial agents. Access Microbiol. 2020 Feb 18;2(4):acmi000105.

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

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