



# 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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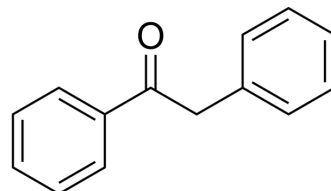
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## 2-Phenylacetophenone

Cat. No.:	HY-Y1777		
CAS No.:	451-40-1		
Molecular Formula:	C <sub>14</sub> H <sub>12</sub> O		
Molecular Weight:	196.24		
Target:	Others		
Pathway:	Others		
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 (509.58 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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.					
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	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> .
In Vitro	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> . 2-Phenylacetophenone (1000 µg/mL) inhibits biofilm formation for <i>M. smegmatis</i> <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[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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