



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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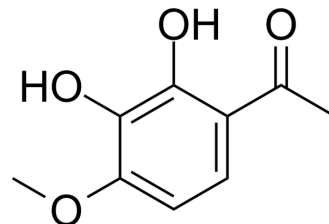
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## 2,3-Dihydroxy-4-methoxyacetophenone

<b>Cat. No.:</b>	HY-N7509		
<b>CAS No.:</b>	708-53-2		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>10</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	182.17		
<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 (548.94 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	5.4894 mL	27.4469 mL	54.8938 mL
	<b>5 mM</b>	1.0979 mL	5.4894 mL	10.9788 mL
	<b>10 mM</b>	0.5489 mL	2.7447 mL	5.4894 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 (13.72 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 (13.72 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	2,3-Dihydroxy-4-methoxyacetophenone is a neuroprotective compound from <i>Cynenchum paniculatum</i> . 2,3-Dihydroxy-4-methoxyacetophenone improves cognitive function and may has the potential for the treatment of Alzheimer's disease research <sup>[1]</sup> .
<b>In Vitro</b>	2,3-Dihydroxy-4-methoxyacetophenone protects HT22 cells on glutamate induced cell-death in a dose-dependent manner (EC <sub>50</sub> =10.94 μM). 2,3-Dihydroxy-4-methoxyacetophenone inhibits [Ca <sup>2+</sup> ] accumulation in HT22 cells and has antioxidative activity <sup>[1]</sup> .

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	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	2,3-dihydroxy-4-methoxyacetophenone (50mg/kg; po) improves the impairment of spatial memory induced by scopolamine [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Jin Bae Weon, et al. The Ameliorating Effects of 2,3-dihydroxy-4-methoxyacetophenone on Scopolamine-Induced Memory Impairment in Mice and Its Neuroprotective Activity. *Bioorg Med Chem Lett*. 2013 Dec 15;23(24):6732-6.

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

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