



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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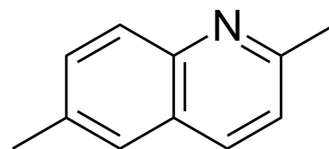
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## 2,6-Dimethylquinoline

<b>Cat. No.:</b>	HY-W010195		
<b>CAS No.:</b>	877-43-0		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>11</sub> N		
<b>Molecular Weight:</b>	157.22		
<b>Target:</b>	Cytochrome P450		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<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 (636.05 mM; Need ultrasonic)			
		<b>Solvent</b>	<b>Mass</b>	
		<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>
	<b>Preparing Stock Solutions</b>		<b>10 mg</b>	
	<b>1 mM</b>	6.3605 mL	31.8026 mL	63.6051 mL
	<b>5 mM</b>	1.2721 mL	6.3605 mL	12.7210 mL
	<b>10 mM</b>	0.6361 mL	3.1803 mL	6.3605 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 (15.90 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 (15.90 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (15.90 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	2,6-Dimethylquinoline, a nature constituent from the roots of <i>Peucedantu praeruptorum</i> , is a CYP1A2 inhibitor with an IC <sub>50</sub> of 3.3 μM. 2,6-Dimethylquinoline also inhibits CYP2B6 activity with an IC <sub>50</sub> of 480 μM <sup>[1][2][3]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	CYP1A2 3.3 μM (IC <sub>50</sub> )	CYP2B6 480 μM (IC <sub>50</sub> )

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## REFERENCES

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- [1]. Laura E Korhonen, et al. Predictive three-dimensional quantitative structure-activity relationship of cytochrome P450 1A2 inhibitors. *J Med Chem.* 2005 Jun 2;48(11):3808-15.
- [2]. L E Korhonen, et al. New potent and selective cytochrome P450 2B6 (CYP2B6) inhibitors based on three-dimensional quantitative structure-activity relationship (3D-QSAR) analysis. *Br J Pharmacol.* 2007 Apr;150(7):932-42.
- [3]. Cun Zhang, et al. Studies on chemical constituents from roots of *Peucedanum praeruptorum* II. *Zhongguo Zhong Yao Za Zhi.* 2006 Aug;31(16):1333-5.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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