



# 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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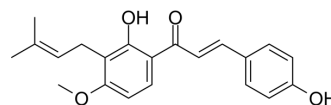
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## 4-Hydroxyderricin

Cat. No.:	HY-N7204
CAS No.:	55912-03-3
Molecular Formula:	C <sub>21</sub> H <sub>22</sub> O <sub>4</sub>
Molecular Weight:	338.4
Target:	Monoamine Oxidase; Dopamine β-hydroxylase
Pathway:	Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (295.51 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.9551 mL	14.7754 mL	29.5508 mL
				5 mM	0.5910 mL	2.9551 mL	5.9102 mL
				10 mM	0.2955 mL	1.4775 mL	2.9551 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 (7.39 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	4-Hydroxyderricin, the major active ingredients of <i>Angelica keiskei</i> Koidzumi, is a potent selective MAO-B (Monoamine oxidase inhibitors) inhibitor with an IC <sub>50</sub> of 3.43 μM. 4-Hydroxyderricin also mildly inhibits DBH (dopamine β-hydroxylase) activity. 4-Hydroxyderricin has antidepressant activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 3.43 μM (MAO-B) <sup>[1]</sup>

### CUSTOMER VALIDATION

- Nutrients. 2021, 13(10), 3382.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Kim JH, et al. Xanthoangelol and 4-Hydroxyderricin Are the Major Active Principles of the Inhibitory Activities against Monoamine Oxidases on Angelica keiskei K. Biomol Ther (Seoul). 2013 May 30;21(3):234-40.

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

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