



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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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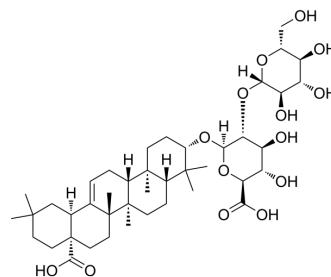
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## Zingibroside R1

<b>Cat. No.:</b>	HY-N6924
<b>CAS No.:</b>	80930-74-1
<b>Molecular Formula:</b>	C <sub>42</sub> H <sub>66</sub> O <sub>14</sub>
<b>Molecular Weight:</b>	794.97
<b>Target:</b>	HIV
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (125.79 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.2579 mL	6.2895 mL	12.5791 mL
		<b>5 mM</b>		0.2516 mL	1.2579 mL	2.5158 mL
<b>10 mM</b>		0.1258 mL	0.6290 mL	1.2579 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 (3.14 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 (3.14 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (3.14 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Zingibroside R1 is dammarane-type triterpenoid saponin, isolated from rhizomes, taproots, and lateral roots of <i>Panax japonicas</i> C. A. Meyer, shows excellent anti-tumor effects as well as anti-angiogenic activity <sup>[1]</sup> . Zingibroside R1 possesses some anti-HIV-1 activity. Zingibroside R1 has inhibitory effects on the 2-deoxy-D-glucose (2-DG) uptake by EAT cells (IC <sub>50</sub> = 91.3 μM) <sup>[2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	HIV-1

### REFERENCES

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[1]. Yoshizaki K, et al. Saponins composition of rhizomes, taproots, and lateral roots of Satsuma-ninjin (*Panax japonicus*). *Chem Pharm Bull (Tokyo)*. 2013;61(3):344-50. Epub 2012 Dec 28

[2]. Hasegawa H, et al. Inhibitory effect of some triterpenoid saponins on glucose transport in tumor cells and its application to in vitro cytotoxic and antiviral activities. *Planta Med*. 1994 Jun;60 (3):240-3.

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

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