



# 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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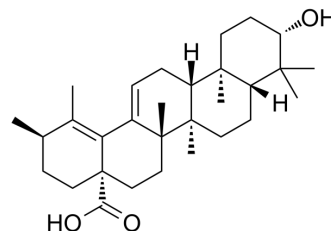
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## Randialic acid B

Cat. No.:	HY-N8152
CAS No.:	14021-14-8
Molecular Formula:	C <sub>30</sub> H <sub>46</sub> O <sub>3</sub>
Molecular Weight:	454.68
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
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 (219.93 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.1993 mL	10.9967 mL	21.9935 mL
	5 mM		0.4399 mL	2.1993 mL	4.3987 mL
	10 mM		0.2199 mL	1.0997 mL	2.1993 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Randialic acid B, a triterpenoid compound, is a formyl peptide receptor 1 (FPR1) antagonist. Randialic acid B blocks FPR1 in human neutrophils and attenuates psoriasis-like inflammation *in vivo*<sup>[1]</sup>.

#### In Vitro

Randialic acid B (0.1-3 μM; for 5 min) selectively inhibits reactive oxygen species production, elastase release, and CD11b expression in human neutrophils activated by FPR1. Randialic acid B inhibits the binding of N-formyl peptide to FPR1 in human neutrophils, neutrophil-like THP-1 cells, and hFPR1-transfected HEK293 cells, indicating FPR1 antagonism<sup>[1]</sup>. Randialic acid B acts competitively for its binding to the FPR1 receptor. The FPR1-downstream signaling such as Ca<sup>2+</sup> mobilisation and activation of Akt and MAPKs is also competitively inhibited<sup>[1]</sup>. Randialic acid B shows significant cell-protective effects against H<sub>2</sub>O<sub>2</sub>-induced H9c2 cardiomyocyte injury<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

Randialic acid B (10 mg/kg; i.v.; every other day; for 5 days) significantly reduces Imiquimod-induced psoriasis-like symptom, including epidermal hyperplasia, desquamation with scaling, neutrophil skin infiltration, and transepidermal water loss<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	BALB/c white female mice (20 g weight; 7-week-old) treated with Imiquimod <sup>[1]</sup>
Dosage:	10 mg/kg
Administration:	i.v.; every other day; for 5 days
Result:	Significantly reduced Imiquimod-induced psoriasis-like symptoms.

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## REFERENCES

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[1]. Michal Korinek, et al. Randialic acid B and tomentosolic acid block formyl peptide receptor 1 in human neutrophils and attenuate psoriasis-like inflammation in vivo. *Biochem Pharmacol.* 2021 Aug;190:114596.

[2]. Shan-Shan Li, et al. Three new triterpenoids isolated from the aerial parts of *Ilex cornuta* and protective effects against H<sub>2</sub>O<sub>2</sub>-induced myocardial cell injury. *Chin J Nat Med.* 2017 Feb;15(2):115-120.

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

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