



# 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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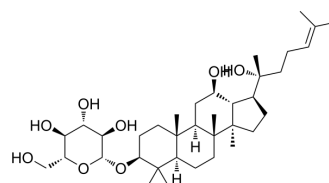
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## 20(R)-Ginsenoside Rh2

<b>Cat. No.:</b>	HY-N1401
<b>CAS No.:</b>	112246-15-8
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>62</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	622.87
<b>Target:</b>	MMP; Apoptosis; HSV
<b>Pathway:</b>	Metabolic Enzyme/Protease; Apoptosis; 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

#### In Vitro

DMSO : 125 mg/mL (200.68 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6055 mL	8.0274 mL	16.0547 mL
	5 mM	0.3211 mL	1.6055 mL	3.2109 mL
	10 mM	0.1605 mL	0.8027 mL	1.6055 mL

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

### BIOLOGICAL ACTIVITY

#### Description

20(R)-Ginsenoside Rh2, a matrix metalloproteinase (MMP) inhibitor, acts as a cell antiproliferator. It has anticancer effects via blocking cell proliferation and causing G1 phase arrest. 20(R)-Ginsenoside Rh2 induces apoptosis, and has anti-inflammatory and antioxidative activity<sup>[1][2][3]</sup>. 20(R)-Ginsenoside Rh2 inhibits the replication and proliferation of mouse and human gammaherpesvirus 68 (MHV-68) with an IC<sub>50</sub> of 2.77 μM for murine MHV-68<sup>[4]</sup>.

#### IC<sub>50</sub> & Target

MMP<sup>[1]</sup>

### REFERENCES

- [1]. Choi WY, et al. Anti-inflammatory, antioxidative and matrix metalloproteinase inhibitory properties of 20(R)-ginsenoside Rh2 in cultured macrophages and keratinocytes. *J Pharm Pharmacol.* 2013 Feb;65(2):310-6.
- [2]. Chung KS, et al. Ginsenoside Rh2 induces cell cycle arrest and differentiation in human leukemia cells by upregulating TGF-β expression. *Carcinogenesis.* 2013 Feb;34(2):331-40.
- [3]. Choi S, et al. Ginsenoside Rh2-mediated G1 phase cell cycle arrest in human breast cancer cells is caused by p15 Ink4B and p27 Kip1-dependent inhibition of cyclin-

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dependent kinases. Pharm Res. 2009 Oct;26(10):2280-8.

[4]. Kang S, et al. Antiviral activity of 20(R)-ginsenoside Rh2 against murine gammaherpesvirus. J Ginseng Res. 2017 Oct;41(4):496-502.

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

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