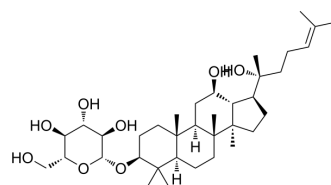


20(R)-Ginsenoside Rh2

Cat. No.:	HY-N1401
CAS No.:	112246-15-8
Molecular Formula:	C ₃₆ H ₆₂ O ₈
Molecular Weight:	622.87
Target:	MMP; Apoptosis; HSV
Pathway:	Metabolic Enzyme/Protease; Apoptosis; Anti-infection
Storage:	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^{[1][2][3]}. 20(R)-Ginsenoside Rh2 inhibits the replication and proliferation of mouse and human gammaherpesvirus 68 (MHV-68) with an IC₅₀ of 2.77 μM for murine MHV-68^[4].

IC₅₀ & Target

MMP^[1]

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-

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.

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

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