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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

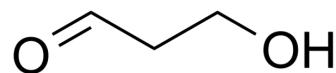
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Reuterin

Cat. No.:	HY-N8461		
CAS No.:	2134-29-4		
Molecular Formula:	C ₃ H ₆ O ₂		
Molecular Weight:	74.08		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 250 mg/mL (3374.73 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	13.4989 mL	67.4946 mL	134.9892 mL
		5 mM	2.6998 mL	13.4989 mL	26.9978 mL
10 mM		1.3499 mL	6.7495 mL	13.4989 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (1349.89 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	<p>Reuterin is a broad-spectrum antimicrobial agent active against Gram positive and Gram negative bacteria, as well as yeasts, moulds and protozoa. Reuterin is produced by specific strains of <i>Lactobacillus reuteri</i> during anaerobic metabolism of glycerol. Reuterin also demonstrates potent antimicrobial activity against a broad panel of human and poultry meat campylobacter spp. Isolates^{[1][2]}.</p>
In Vitro	<p>Reuterin is water soluble, effective in a wide range of pH, resistant to proteolytic and lipolytic enzymes and has been therefore studied as a food preservative or auxiliary therapeutic agent. Reuterin is a potent antimicrobial with high activity against a broad panel of <i>C. jejuni</i> and <i>C. coli</i> isolates^[1].</p> <p>Reuterin is produced by certain strains of <i>L. reuteri</i> during anaerobic fermentation of glycerol and has a broad-spectrum antimicrobial property against enteric pathogens and intestinal bacteria^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Schaefer L, et al. The antimicrobial compound reuterin (3-hydroxypropionaldehyde) induces oxidative stress via interaction with thiol groups. *Microbiology (Reading)*. 2010;156(Pt 6):1589-1599.
- [2]. Asare PT, et al. Reuterin Demonstrates Potent Antimicrobial Activity Against a Broad Panel of Human and Poultry Meat *Campylobacter* spp. Isolates. *Microorganisms*. 2020;8(1):78. Published 2020 Jan 6.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA