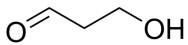


Data Sheet

Product Name:ReuterinCat. No.:CS-0144520CAS No.:2134-29-4Molecular Formula: $C_3H_6O_2$ Molecular Weight:74.08

Target: Bacterial Pathway: Anti-infection

Solubility: H2O: 250 mg/mL (3374.73 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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 *Lactobacillus reuteri* 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]. *In Vitro:* 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 *C. jejuni* and *C. coli* isolates^[1].

Reuterin is produced by certain strains of L. reuteri during anaerobic fermentation of glycerol and has a broad-spectrum antimicrobial property against enteric pathogens and intestinal bacteria^[2].

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.

CAIndexNames:

Propanal, 3-hydroxy-

SMILES:

O=CCCO

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

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