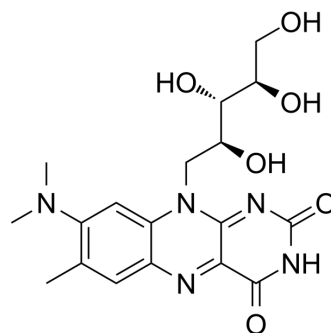


Roseoflavin

Cat. No.:	HY-121295
CAS No.:	51093-55-1
Molecular Formula:	C ₁₈ H ₂₃ N ₅ O ₆
Molecular Weight:	405.41
Target:	Bacterial
Pathway:	Anti-infection
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (123.33 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4666 mL	12.3332 mL	24.6664 mL
	5 mM	0.4933 mL	2.4666 mL	4.9333 mL
	10 mM	0.2467 mL	1.2333 mL	2.4666 mL

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

BIOLOGICAL ACTIVITY

Description

Roseoflavin, a natural pigment originally isolated from *Streptomyces davawensis*, is an antimetabolite analog of Riboflavin and flavin mononucleotide that has antimicrobial properties^[1].

In Vitro

Roseoflavin, a chemical analog of flavin mononucleotide (FMN) and riboflavin that has antimicrobial activity, can directly bind to FMN riboswitch ($K_D \sim 100$ nM) aptamers and downregulate the expression of an FMN riboswitch-lacZ reporter gene in *B. subtilis*^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lee ER, et al. Roseoflavin is a natural antibacterial compound that binds to FMN riboswitches and regulates gene expression. *RNA Biol.* 2009;6(2):187-194.

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

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