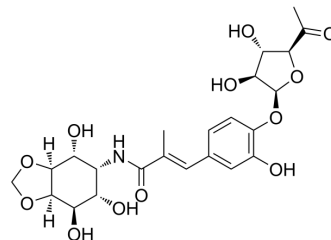


Hygromycin A

Cat. No.:	HY-N10617
CAS No.:	6379-56-2
Molecular Formula:	C ₂₃ H ₂₉ NO ₁₂
Molecular Weight:	511.48
Target:	Antibiotic; Bacterial
Pathway:	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 : 100 mg/mL (195.51 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9551 mL	9.7756 mL	19.5511 mL
	5 mM	0.3910 mL	1.9551 mL	3.9102 mL
	10 mM	0.1955 mL	0.9776 mL	1.9551 mL

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

BIOLOGICAL ACTIVITY

Description

Hygromycin A is a *Borrelia burgdorferi*-selective antibiotic. Hygromycin A is a spirochete-specific antibacterial that is conducive to gut health. Hygromycin A can be used for Lyme disease research^[1].

In Vivo

Hygromycin A selectively kills *Borrelia burgdorferi* and has a favorable impact on the gut microbiota composition, leading to eubiosis^[1].

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

REFERENCES

[1]. Arnaboldi PM, et al. Hygromycin A in the Lymelight. *Cell Host Microbe*. 2021 Nov 10;29(11):1599-1601.

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

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