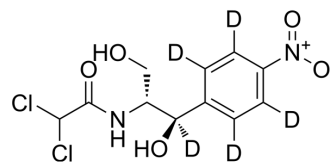


Chloramphenicol-d₅

Cat. No.:	HY-B0239S	
CAS No.:	202480-68-0	
Molecular Formula:	C ₁₁ H ₇ D ₅ Cl ₂ N ₂ O ₅	
Molecular Weight:	328.16	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 100 mg/mL (304.73 mM; Need ultrasonic)
H₂O : 3.06 mg/mL (9.32 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.0473 mL	15.2365 mL	30.4729 mL
	5 mM	0.6095 mL	3.0473 mL	6.0946 mL
	10 mM	0.3047 mL	1.5236 mL	3.0473 mL

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

BIOLOGICAL ACTIVITY

Description

Chloramphenicol-d₅ is the deuterium labeled Chloramphenicol. Chloramphenicol is a broad-spectrum antibiotic against bacterial infections[1][2].

REFERENCES

[1]. Jardetzky, O., Studies on the mechanism of action of chloramphenicol. I. The conformation of chloramphenicol in solution. J Biol Chem, 1963. 238: p. 2498-508.

[2]. Wolfe, A.D. and F.E. Hahn, Mode of Action of Chloramphenicol. Ix. Effects of Chloramphenicol Upon a Ribosomal Amino Acid Polymerization System and Its Binding to Bacterial Ribosome. Biochim Biophys Acta, 1965. 95: p. 146-55.

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

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