

## Product Data Sheet

Product Name: Chloramphenicol-d5

Cat. No.: GC71628

### Chemical Properties

Cas. No. 202480-68-0

Formula  $C_{11}H_7D_5Cl_2N_2O_5$  M.Wt 328.16

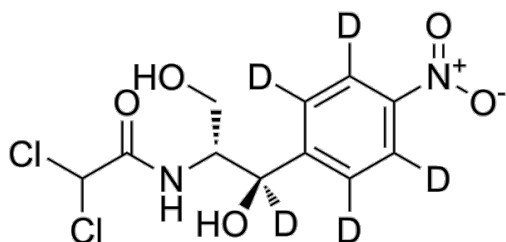
Solubility Ethanol : 100 mg/mL (304.73 mM; Need ultrasonic) Ethanol : 100 mg/mL (304.73 mM; Need ultrasonic); H<sub>2</sub>O : 3.06 mg/mL (9.32 mM; Need ultrasonic); H<sub>2</sub>O : 3.06 mg/mL (9.32 mM; Need ultrasonic)

Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

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

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

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### 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.

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