

Product Data Sheet

Product Name: Florfenicol-d3

Cat. No.: GC45453

Chemical Properties

Cas. No. 2213400-85-0

SMILES O=S(C1=CC=C([C@@H](O)[C@H](NC(C(Cl)Cl)=O)CF)C=C1)(C([2H])([2H])[2H])=O

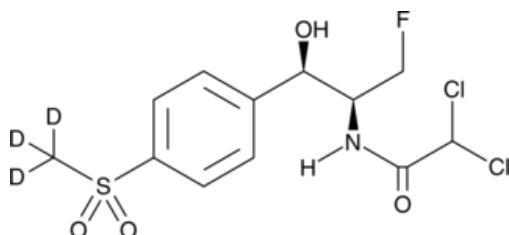
Formula C₁₂H₁₁Cl₂D₃FNO₄S M.Wt 361.2

Solubility DMF: slightly soluble, DMSO: slightly soluble, Methanol: slightly soluble Storage Store at -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

Florfenicol-d3 is intended for use as an internal standard for the quantification of florfenicol by GC- or LC-MS. Florfenicol is a fluorinated antibiotic related to chloramphenicol and thiamphenicol. 1 Florfenicol is metabolized to florfenicol amine. 2,3 Formulations containing florfenicol have been used in the treatment of infectious respiratory diseases in cattle.

References

1. Schwarz, S., and Chaslus-Dancla, E. Use of antimicrobials in veterinary medicine and mechanisms of resistance. Vet. Res. 32(3-4), 201-225 (2001).
2. Schwarz, S., Kehrenberg, C., Doublet, B., et al. Molecular basis of bacterial resistance to chloramphenicol and florfenicol. FEMS Microbiol. Rev. 28(5), 519-542 (2004).
3. Anadón, A., Martínez, M.A., Martínez, M., et al. Plasma and tissue depletion of florfenicol and florfenicol-amine in chickens. J. Agric. Food Chem. 56(22), 11049-11056 (2008).

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

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