

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

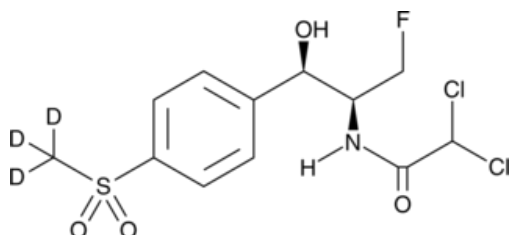
Formula C₁₂H₁₁Cl₂D₃FNO₄S M.Wt 361.2

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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA