



## Product Information

**Product ID** F4556

**CAS No.** 73231-34-2

**Chemical Name** 2,2-Dichloro-N-[(1S,2R)-1-(fluoromethyl)-2-hydroxy-2-[4-methylsulfonyl-phenyl]ethyl]acetamide

**Synonym** Fluorothiamphenicol, Aquafen

**Formula** C<sub>12</sub>H<sub>14</sub>Cl<sub>2</sub>FNO<sub>4</sub>S

**Formula Wt.** 358.21

**Melting Point** 153-154 °C

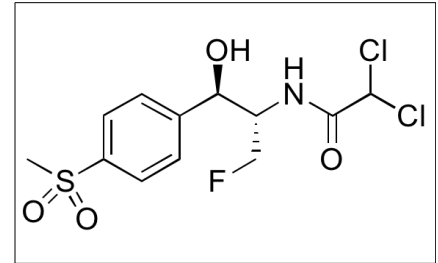
**Purity** ≥98%

**Solubility** Acetone, DMF. Slightly soluble in water (1.3 mg/ml).

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Florfenicol is a synthetic fluorinated analog of thiamphenicol that exhibits antibiotic activity in livestock. Florfenicol acts as an antibacterial against *Shigella*, *Escherichia*, *Klebsiella*, *Enterobacter*, and *Haemophilus*. Florfenicol binds 23S rRNA on the bacterial 50S ribosome, inhibiting translation.



**Bulk quantities available upon request**

Product ID	Size
F4556	1 g
F4556	5 g
F4556	10 g

**References** Kehrenberg C, Schwarz S, Jacobsen L, et al. A new mechanism for chloramphenicol, florfenicol and clindamycin resistance: methylation of 23S ribosomal RNA at A2503. *Mol Microbiol.* 2005 Aug;57(4):1064-73. PMID: 16091044.

Syriopoulou VP, Harding AL, Goldmann DA, et al. In vitro antibacterial activity of fluorinated analogs of chloramphenicol and thiamphenicol. *Antimicrob Agents Chemother.* 1981 Feb;19(2):294-7. PMID: 6957162.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.