



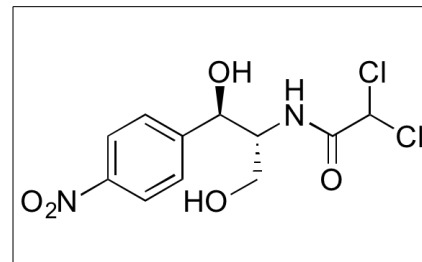
Product Information

Product ID C2844
CAS No. 56-75-7
Chemical Name Acetamide, 2,2-dichloro-N-((1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-
Synonym Chloromyxin, Ophthochlor, Ophthocort.

Formula C₁₁H₁₂Cl₂N₂O₅
Formula Wt. 323.13
Melting Point 150.5-151.5 °C
Purity ≥98%
Solubility Slightly soluble in water (2.5 mg/mL). Very soluble in methanol, ethanol, ethyl acetate, acetone.

Store Temp Ambient
Ship Temp Ambient

Description Chloramphenicol is an antibiotic compound that binds the 50S subunit of the bacterial ribosome, suppressing mitochondrial protein translation; it inhibits peptidyl transferase, preventing translocation. Chloramphenicol exhibits antibacterial activity against *Streptomyces*.



Bulk quantities available upon request

Product ID	Size
C2844	5 g
C2844	10 g
C2844	50 g

References Sheth A, Escobar-Alvarez S, Gardner J, et al. Inhibition of human mitochondrial peptide deformylase causes apoptosis in c-myc-overexpressing hematopoietic cancers. *Cell Death Dis.* 2014 Mar 27;5:e1152. PMID: 24675470.

Rajesh T, Song E, Lee BR, et al. Increased sensitivity to chloramphenicol by inactivation of manB in *Streptomyces coelicolor*. *J Microbiol Biotechnol.* 2012 Oct;22(10):1324-9. PMID: 23075781.

Wilson DN. On the specificity of antibiotics targeting the large ribosomal subunit. *Ann N Y Acad Sci.* 2011 Dec;1241:1-16. PMID: 22191523.

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