

Product Information

Metabolism inhibitor, Chloramphenicol, Purity ≥98%

Cat. No.: X24-08-YM357

Size: 500 mg; 1 g; 2 g; 5 g

MDL: MFCD00078159

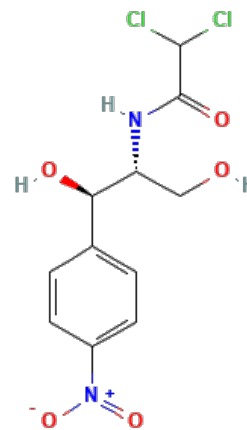
CAS Number: 56-75-7

Compound CID: 5959

Synonym: 56-75-7; Chloromycetin; Chlornitromycin; Levomycetin; Chloroamphenicol; Globenicol; Halomycetin; Levomicetina; Oleomycetin; Alficetyn; Chloramex; Chlorocid; Chlorocol; Fenicol; Chloramficin; Chloramfilin; Enteromycetin; Amphicol; Aquamycetin; Chloroptic; Cloramicol; D-Chloramphenicol; Detreomycin; Econochlor; Juvamycetin; Novomycetin; Sificetina; Mychel;

2,2-Dichloro-*N*-[(1*R*,2*R*)-1,3-dihydroxy-1-(4-nitrophenyl)propan-2-yl]acetamide

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Chloramphenicol, soluble in DMSO and ethanol and insoluble in water, is an effective cell metabolism inhibitor, that has the ability to prevent the pathway of metabolism by inhibiting cytochrome P450.
Molecular Weight	323.13
Molecular Formula	C ₁₁ H ₁₂ Cl ₂ N ₂ O ₅
IUPAC Name	2,2-Dichloro- <i>N</i> -[(1 <i>R</i> ,2 <i>R</i>)-1,3-dihydroxy-1-(4-nitrophenyl)propan-2-yl]acetamide
InChI	InChI=1S/C11H12Cl2N2O5/c12-10(13)11(18)14-8(5-16)9(17)6-1-3-7(4-2-6)15(19)20/h1-4,8-10,16-17H,5H2,(H,14,18)/t8-,9-/m1/s1
InChI Key	VNFPBHJOKIVQEB-UHFFFAOYSA-N
Canonical SMILES	C1=CC=C(C=C1)C(C2=CC=CC=C2)(C3=CC=CC=C3Cl)N4C=CN=C4
Form	Lyophilized powder
Purity	≥98%
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Solubility	<i>In vitro</i> : DMSO: 55 mg/mL (170.2 mM); Water: insoluble; Ethanol: 55 mg/mL (170.2 mM)
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade



Applications

Chloramphenicol is a metabolism inhibitor that plays a key role in research to study bacterial resistance mechanisms and the development of new antibiotics.

Storage

Store at -20°C, and keep desiccated.
