

Product Information

Antifection inhibitor Chlorothricin, Purity ≥98%

Cat. No.: X24-07-ZQ038

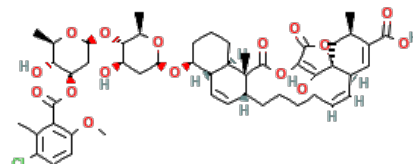
Size: 1 mg; 2 mg; 5 mg; 10 mg

CAS Number: 34707-92-1

Compound CID: 76956249

Synonym: 34707-92-1; Antifection inhibitor; K-818A; CHL; Antibiotic K 818A

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



Product Information

Description	Chlorothricin has strong immunosuppressant properties.
Molecular Weight	955.48
Molecular Formula	C ₅₀ H ₆₃ ClO ₁₆
IUPAC Name	(1S,3R,6R,7Z,13R,16S,17S,21R,22R)-17-[(2R,4R,5S,6R)-5-[(2S,4R,5R,6R)-4-(3-chloro-6-methoxy-2-methylbenzoyl)oxy-5-hydroxy-6-methyloxan-2-yl]oxy-4-hydroxy-6-methylxan-2-yl]oxy-28-hydroxy-3,22-dimethyl-23,26-dioxo-24,27-dioxapentacyclo[23.2.1.01,6.013,22.016,21]octacos-4,7,14,25(28)-tetraene-4-carboxylic acid
InChI	InChI=1S/C50H63ClO16/c1-24-23-50-29(20-31(24)45(55)56)13-10-8-7-9-12-28-16-17-30-32(49(28,5)48(59)66-43(44(50)54)47(58)67-50)14-11-15-35(30)63-38-21-34(52)42(27(4)62-38)65-39-22-37(41(53)26(3)61-39)64-46(57)40-25(2)33(51)18-19-36(40)60-6/h10,13,16-20,24,26-30,32,34-35,37-39,41-42,52-54H,7-9,11-12,14-15,21-23H2,1-6H3,(H,55,56)/b13-10-/t24-,26-,27-,28-,29-,30+,32-,34-,35+,37-,38+,39+,41-,42-,49-,50+/m1/s1
InChI Key	WUXHQHDSSKBJFH-LTBGADRXSA-N
Canonical SMILES	CC1CC23C(C=CCCCC4C=CC5C(C4(C(=O)OC(=C2O)C(=O)O3)C)CCCC5OC6CC(C(C(O6)C)OC7CC(C(C(O7)C)O)OC(=O)C8=C(C=CC(=C8C)Cl)OC)O)C=C1C(=O)O
Isomeric SMILES	C[C@@H]1C[C@]23[C@H]/(C=C\CCCC[C@@H]4C=C[C@H]5[C@H]([C@@]4(C(=O)OC(=C2O)C(=O)O3)C)CCC[C@@H]5O[C@H]6C[C@H]([C@@H]([C@H](O6)C)O[C@H]7C[C@H]([C@@H]([C@H](O7)C)O)OC(=O)C8=C(C=CC(=C8C)Cl)OC)O)C=C1C(=O)O
Form	Lyophilized powder
Purity	≥98%
Identity	Confirmed by NMR/HPLC/MS.



Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Chlorothricin is an antifection inhibitor used in research to explore its antibiotic properties against various bacteria, contributing to the understanding of natural antibiotic sources.
Storage	Store at -20°C, and keep desiccated.