

Product Information

Antifection inhibitor Calicheamicin, Purity ≥98%

Cat. No.: X24-07-ZQ024

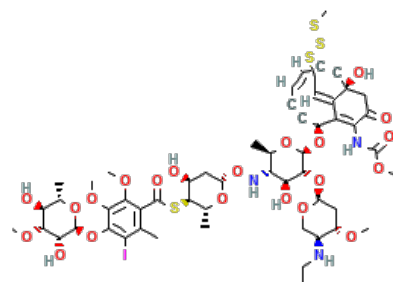
Size: 1 mg; 5 mg; 10 mg; 25 mg

CAS Number: 108212-75-5

Compound CID: 101617325

Synonym: 108212-75-5; Antifection inhibitor; Calicheamicin gamma1; Calicheamicin gamma(1)

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



Product Information

Description	Calicheamicin has strong immunosuppressant properties. It targets Calicheamicins.
Molecular Weight	1368.34
Molecular Formula	C ₅₅ H ₇₄ IN ₃ O ₂₁ S ₄
Targets	Calicheamicins
IUPAC Name	S-[(2R,3S,4S,6S)-6-[[[(2R,3S,4S,5R,6R)-5-[(2S,4S,5S)-5-(ethylamino)-4-methoxyoxan-2-yl]oxy-4-hydroxy-6-[[[(2S,5Z,9R,13Z)-9-hydroxy-12-(methoxycarbonylamino)-13-[2-(methyltrifluoromethyl)ethylidene]-11-oxo-2-bicyclo[7.3.1]trideca-1(12),5-dien-3,7-diynyl]oxy]-2-methyloxan-3-yl]amino]oxy-4-hydroxy-2-methyloxan-3-yl]4-[(2S,3R,4R,5S,6S)-3,5-dihydroxy-4-methoxy-6-methyloxan-2-yl]oxy-5-iodo-2,3-dimethoxy-6-methylbenzenecarbothioate
InChI	InChI=1S/C55H74IN3O21S4/c1-12-57-30-24-73-35(22-34(30)68-6)78-48-43(63)40(26(3)75-53(48)77-33-17-15-13-14-16-19-55(67)23-32(61)41(58-54(66)72-10)38(33)29(55)18-20-82-84-81-11)59-80-36-21-31(60)50(28(5)74-36)83-51(65)37-25(2)39(56)46(49(71-9)45(37)69-7)79-52-44(64)47(70-8)42(62)27(4)76-52/h13-14,18,26-28,30-31,33-36,40,42-44,47-48,50,52-53,57,59-60,62-64,67H,12,20-24H2,1-11H3,(H,58,66)/b14-13,-29-18-/t26-,27+,28-,30+,31+,33+,34+,35+,36+,40-,42+,43+,44-,47-,48-,50-,52+,53+,55+/m1/s1
InChI Key	HXCHCVDVKSCDHU-GPCZLZLMSA-N
Canonical SMILES	CCNC1COC(CC1OC)OC2C(C(C(OC2OC3C#CC=CC#CC4(CC(=O)C(=C3C4=CCSSSC)NC(=O)O



C)O)C)NOC5CC(C(C(O5)C)SC(=O)C6=C(C(=C(C(=C6OC)OC)OC7C(C(C(C(O7)C)O)OC)O)I)C)O)O

Isomeric SMILES	<chem>CCN[C@H]1CO[C@H](C[C@@H]1OC)O[C@@H]2[C@H]([C@@H]([C@H](O[C@H]2O[C@H]3C#C/C=C\C#C[C@@]4(CC(=O)C(=C3/C4=C/CSSSC)NC(=O)OC)O)C)NO[C@H]5C[C@@H]([C@@H]([C@H](O5)C)SC(=O)C6=C(C(=C(C(=C6OC)OC)O[C@H]7[C@@H]([C@@H]([C@H]([C@@H](O7)C)O)OC)O)I)C)O)O</chem>
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	Calicheamicin is an antifection inhibitor employed in research for targeting DNA in cancer cells, useful in developing cancer treatment strategies.
Storage	Store at -20°C, and keep desiccated.