



Product Information

Microtubule/Tubulin inhibitor, Maytansinol, Purity $\geq 98\%$

Cat. No.: X24-08-YM255

Size: 5 mg; 10 mg; 50 mg; 100 mg

MDL: MFCD28144515

CAS Number: 57103-68-1

Compound CID: 9915934

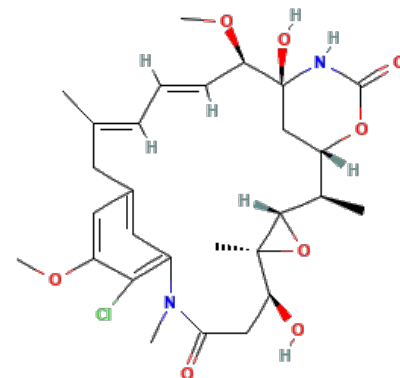
Synonym: 57103-68-1; Ansamitocin P-0;

(1*S*,2*R*,3*S*,5*S*,6*S*,16*E*18*E*,20*R*,21*S*

)-11-Chloro-6,21-dihydroxy-12,20-dimethoxy-2,5,9,16-tetramethyl-4,24-dioxa-9,22-dia

zatetracyclo[19.3.1.110,14.03,5]hexacosa-10,12,14(26),16,18-pentaene-8,23-dione

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



Product Information

Description	Maytansinol is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting microtubule/tubulin.
Molecular Weight	565.06
Molecular Formula	C ₂₈ H ₃₇ ClN ₂ O ₈
IUPAC Name	(1 <i>S</i> ,2 <i>R</i> ,3 <i>S</i> ,5 <i>S</i> ,6 <i>S</i> ,16 <i>E</i> 18 <i>E</i> ,20 <i>R</i> ,21 <i>S</i>)-11-Chloro-6,21-dihydroxy-12,20-dimethoxy-2,5,9,16-tetramethyl-4,24-dioxa-9,22-diazatetracyclo[19.3.1.110,14.03,5]hexacosa-10,12,14(26),16,18-pentaene-8,23-dione
InChI	InChI=1S/C28H37ClN2O8/c1-15-8-7-9-22(37-6)28(35)14-20(38-26(34)30-28)16(2)25-27(3,39-25)21(32)13-23(33)31(4)18-11-17(10-15)12-19(36-5)24(18)29/h7-9,11-12,16,20-22,25,32,35H,10,13-14H2,1-6H3,(H,30,34)/b9-7+,15-8+/t16-,20+,21+,22-,25+,27+,28+/m1/s1
InChI Key	QWPXBHQFHACTK-RZKXNLMUSA-N
Canonical SMILES	CC1C2CC(C(C=CC=C(CC3=CC(=C(C(=C3)OC)Cl)N(C(=O)CC(C4(C1O4)C)O)C)C)OC)(NC(=O)O2)O
Isomeric SMILES	C[C@@H]1[C@@H]2C[C@]([C@@H]/C=C/C=C/CC3=CC(=C(C(=C3)OC)Cl)N(C(=O)C[C@@H]([C@]4([C@H]1O4)C)O)C)\C)OC)(NC(=O)O2)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Stability	In its lyophilized form, the chemical remains stable for 36 months.



Quality Level	Research grade
Applications	Maytansinol is a cytoskeletal signaling inhibitor that plays a key role in disrupting microtubule dynamics and has been used in the development of ADCs for targeted cancer therapy.
Storage	Store at -20°C, and keep desiccated.
