

Product Information

Antifection inhibitor Amadacycline, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ002

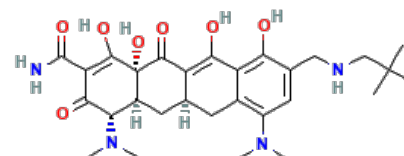
Size: 5 mg; 10 mg; 50 mg

CAS Number: 389139-89-3

Compound CID: 54697325

Synonym: 389139-89-3; Antifection inhibitor; OMadacycline; PTK 0796

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



Product Information

Description	Amadacycline has strong immunosuppressant properties.
Molecular Weight	556.65
Molecular Formula	C ₂₉ H ₄₀ N ₄ O ₇
IUPAC Name	(4 <i>S</i> ,4 <i>aS</i> ,5 <i>aR</i> ,12 <i>aR</i>)-4,7-bis(dimethylamino)-9-[(2,2-dimethylpropylamino)methyl]-1,10,11,12a-tetrahydroxy-3,12-dioxo-4a,5,5a,6-tetrahydro-4 <i>H</i> -tetracene-2-carboxamide
InChI	InChI=1S/C29H40N4O7/c1-28(2,3)12-31-11-14-10-17(32(4)5)15-8-13-9-16-21(33(6)7)24(36)20(27(30)39)26(38)29(16,40)25(37)18(13)23(35)19(15)22(14)34/h10,13,16,21,31,34-35,38,40H,8-9,11-12H2,1-7H3,(H2,30,39)/t13-,16-,21-,29-/m0/s1
InChI Key	VJYKVCURWJGLPG-IQZGDKDPSA-N
Canonical SMILES	CC(C)(C)CNCC1=CC(=C2CC3CC4C(C(=O)C(=C(C4(C(=O)C3=C(C2=C1O)O)O)C(=O)N)N(C)C)N(C)C
Isomeric SMILES	CC(C)(C)CNCC1=CC(=C2C[C@H]3C[C@H]4[C@@H](C(=O)C(=C([C@]4(C(=O)C3=C(C2=C1O)O)O)C(=O)N)N(C)C)N(C)C
Form	Lyophilized powder
Purity	$\geq 98\%$
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	Amadacycline is studied for its effectiveness in treating bacterial infections, focusing on its broad-spectrum antibiotic properties.



Storage

Store at -20°C, and keep desiccated.
