

Picoplatin

Chemical Properties

CAS No. : 181630-15-9

Formula: C₆H₁₀Cl₂N₂Pt

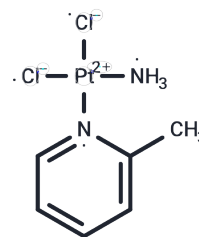
Molecular Weight: 376.14

Storage:

Keep away from direct sunlight, The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Picoplatin has a broad spectrum of antineoplastic activity and is designed to overcome platinum drug resistance. Picoplatin alkylates DNA, forming both intra- and inter-strand cross-linkages, resulting in the inhibition of DNA replication and transcription, and the induction of apoptosis.
Targets(IC50)	Others, DNA/RNA Synthesis

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: Soluble, DMSO inactivates the activity of Picoplatin. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6586 mL	13.2929 mL	26.5858 mL
5 mM	0.5317 mL	2.6586 mL	5.3172 mL
10 mM	0.2659 mL	1.3293 mL	2.6586 mL
50 mM	0.0532 mL	0.2659 mL	0.5317 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wheate NJ, Walker S, Craig GE, Oun R. The status of platinum anticancer drugs in the clinic and in clinical trials. Dalton Trans. 2010 Jun 30. [Epub ahead of print] PubMed PMID: 20593091.

Margiotta N, Denora N, Ostuni R, Laquintana V, Anderson A, Johnson SW, Trapani G, Natile G. Platinum(II) complexes with bioactive carrier ligands having high affinity for the translocator protein. J Med Chem. 2010 Jul 22; 53(14):5144-54. PubMed PMID: 20568783.

More SS, Li S, Yee SW, Chen L, Xu Z, Jablons DM, Giacomini KM. Organic cation transporters modulate the uptake and cytotoxicity of picoplatin, a third-generation platinum analogue. Mol Cancer Ther. 2010 Apr;9(4):1058-69. Epub 2010 Apr 6. PubMed PMID: 20371711.

Olszewski U, Hamilton G. A better platinum-based anticancer drug yet to come? Anticancer Agents Med Chem. 2010 May 1;10(4):293-301. Review. PubMed PMID: 20187870.

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