Data Sheet (Cat.No.T71385)

TargetMol
YOUR TARGET MOLECULES

Aroplatin

Chemical Properties

CAS No. : 114488-24-3

Formula: C26H52N2O4Pt

Molecular Weight: 651.8

Appearance: no data available

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

Biological Description

Description	Aroplatin is a synthetic liposomal formulation of bis-neodecanoate diaminocyclohexane platinum (NDDP), a third-generation platinum complex analogue of cisplatin, with potential antineoplastic activity. After displacement of the 2 long-chain aliphatic leaving groups (neodecanoic acid), platinum diaminocyclohexane (DACH) complexes become highly reactive and alkylate macromolecules, forming both inter- and intra-strand DNA crosslinks and inhibiting DNA synthesis, which results in tumor cell cytotoxicity. Because DNA mismatch-repair (MMR) complexes do not recognize DACHÂ-platinum adducts, DNA repair mechanisms are inhibited, overcoming limitations observed with other platinum-based agents. In addition, the liposomal encapsulation improves the bioavailability of NDDP and reduces its toxicity profile.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5342 mL	7.6711 mL	15.3421 mL
5 mM	0.3068 mL	1.5342 mL	3.0684 mL
10 mM	0.1534 mL	0.7671 mL	1.5342 mL
50 mM	0.0307 mL	0.1534 mL	0.3068 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.

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