

# Product data sheet



MedKoo Cat#: 200280 Name: Aroplatin CAS: 114488-24-3 Chemical Formula: C <sub>26</sub> H <sub>52</sub> N <sub>2</sub> O <sub>4</sub> Pt Exact Mass: 651.3575 Molecular Weight: 651.796	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

## 1. Product 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 DACH-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.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.53 mL	7.67 mL	15.34 mL
5 mM	0.31 mL	1.53 mL	3.07 mL
10 mM	0.15 mL	0.77 mL	1.53 mL
50 mM	0.03 mL	0.15 mL	0.31 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

## 7. Bioactivity

Biological target:

Aroplatin is a synthetic liposomal formulation of bis-neodecanoate diaminocyclohexane platinum (NDDP).

In vitro activity

TBD

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In vivo activity

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TBD

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*