Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Nedaplatin

Catalog No: tcsc2772

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
95734-82-0

Formula:
$C_2H_8N_2O_3Pt$

Pathway:
Cell Cycle/DNA Damage

Target:
DNA/RNA Synthesis

Purity / Grade:
>98%

Solubility:
H2O : 13.6 mg/mL (44.86 mM; Need ultrasonic and warming)

Alternative Names:
NSC 375101D

Observed Molecular Weight:
303.18

Product Description

Nedaplatin (NSC 375101D) is a derivative of cisplatin and DNA damage agent.

In Vitro:

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Nedaplatin (NSC 375101D, NDP) is a derivative of cisplatin which produced less nausea & vomiting and nephrotoxicity. the effect of NDP on the 7-ethyl-1-hydroxy-CPT (the active form of CPT-11)-induced inhibitory effect on DNA topoisomerase I was examined. The topoisomerase I-inhibitory effect of 7-ethyl-1-hydroxy-CPT was enhanced 10-fold in the presence of Nedaplatin (NSC 375101D, NDP) at microgram/milliliter concentrations[1]. Nedaplatin (NSC 375101D, NDP) was developed as a second generation platinum complex. Because it has greater antitumour activity and lower nephrotoxicity than cisplatin (CDDP). At the high-dose of Nedaplatin (NSC 375101D, NDP) in FN therapy, a reduction of tumour size and long-term tumour-free survival were frequently observed. The survival effect of the combinations of Nedaplatin (NSC 375101D, NDP) with 5-FU was superior to those of the combination of CDDP with 5-FU. In conclusion, the sequence-dependent antitumour efficacy and toxicity of the combination of NDP or CDDP with 5-FU was demonstrated in this study, and FN therapy appeared to be the most efficient regimen as a clinical therapy[2].