产品名称：**Nedaplatin**
产品别名：**NSC 375101D**

生物活性：

Description	Nedaplatin (NSC 375101D) is a derivative of cisplatin and DNA damage agent.
In Vitro	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].
Solvent&Solubility	***In Vitro:*** **H_2O : 13.6 mg/mL** (**44.86 mM**; Need ultrasonic and warming; DMSO can inactivate Nedaplatin's activity)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.2984 mL	16.4919 mL	32.9837 mL
5 mM	0.6597 mL	3.2984 mL	6.5967 mL
10 mM	0.3298 mL	1.6492 mL	3.2984 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

[1]. Kanzawa, F., et al., In vitro synergistic interactions between the cisplatin analogue nedaplatin and the DNA topoisomerase I inhibitor irinotecan and the mechanism of this interaction. Clin Cancer Res, 2001. 7(1): p. 202-9.

[2]. Uchida, N., et al., Sequence-dependent antitumour efficacy of combination chemotherapy of nedaplatin, a novel platinum complex, with 5-fluorouracil in an in vivo murine tumour model. Eur J Cancer, 1998. 34(11): p. 1796-801.