

Product Data Sheet

Product Name: cDPCP
Cat. No.: GC49307

Chemical Properties

Cas. No. 106343-59-3

SMILES [Cl-].[Pt+2]([NH3])([N]1=CC=CC=C1)[NH3].[Cl-]

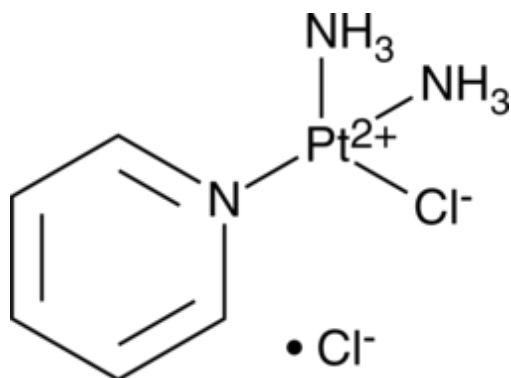
Formula C₅H₁₁ClN₃Pt·Cl M.Wt 379.2

Solubility DMSO: slightly soluble, Water: slightly soluble
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

cDPCP is a platinum-containing DNA-crosslinking agent.¹ Unlike cisplatin or oxaliplatin, cDPCP forms monofunctional DNA adducts. It is transported into cells by organic cation transporter 1 (OCT1) and OCT2, inhibiting proliferation of MDCK cells expressing the human transporters with IC₅₀ values of 8.1 and 1.5 μM, respectively. cDPCP inhibits RNA polymerase II-mediated transcription in a reporter assay using HeLa cells. It increases survival in murine S180 sarcoma and P388 leukemia models when administered at doses of 40 and 80 mg/kg, respectively.²

1. Lovejoy, K.S., Todd, R.C., Zhang, S., et al. cis-Diammine(pyridine)chloroplatinum(II), a

Caution: Product has not been fully validated for medical applications. For research use only.

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monofunctional platinum(II) antitumor agent: Uptake, structure, function, and prospects Proc. Natl. Acad. Sci. USA 105(26)8902-9807(2008) 2. Hollis, L.S., Amundsen, A.R., and Stern, E.W. Chemical and biological properties of a new series of cis-diammineplatinum(II) antitumor agents containing three nitrogen donors: cis-[Pt(NH₃)₂(N-donor)Cl]⁺ J. Med. Chem. 32 128-136(1989)

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