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DATASHEET

Cisplatin

Product overview

Name	Cisplatin
Cat No	HB1289
Description	Broad spectrum anticancer agent. Apoptosis inducer.
Alternative names	CDDP
Biological action	Other

Biological Data

Biological description	Broad spectrum anticancer agent which induces apoptosis. Widely used in studies on DNA damage-induced apoptosis. Induces cytotoxicity by interference with transcription / DNA replication mechanisms.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (5mM, gentle warming)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	<i>cis</i> -Diaminodichloroplatinum
Molecular Weight	300.05
Chemical structure	
Molecular Formula	Cl ₂ H ₆ N ₂ Pt
CAS Number	15663-27-1
PubChem identifier	84691
SMILES	N.N.[Cl-].[Cl-].[Pt++]
InChiKey	LXZZYRPGZAFOLE-UHFFFAOYSA-L

References

Cisplatin (CDDP) specifically induces apoptosis via sequential activation of caspase-8, -3 and -6 in osteosarcoma.

Seki K *et al* (2000) Cancer Chemother Pharmacol 45(3)

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Platinated DNA adducts enhance poisoning of DNA topoisomerase I by camptothecin.

van Waardenburg RC *et al* (2004) J Biol Chem 279(52)

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Biomolecular targets for platinum antitumor drugs.

Bose RN (2002) Mini Rev Med Chem 2(2)

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Siddik ZH (2003) Oncogene 22(47)

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