

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



# DATASHEET

Cisplatin

## Product overview

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

## Biological Data

<b>Biological description</b>	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.
-------------------------------	--

## Solubility & Handling

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

## Chemical Data

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

**PubMedID** [10663637](#)

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

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

**PubMedID** [15471886](#)

### Biomolecular targets for platinum antitumor drugs.

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

PubMedID

12370072

**Cisplatin: mode of cytotoxic action and molecular basis of resistance.**

Siddik ZH (2003) Oncogene 22(47)

PubMedID

14576837

---