

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

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

customercare-usa@m2stage.hellobio.com



DATASHEET

Carboplatin

Product overview

Name	Carboplatin
Cat No	HB3824
Alternative names	NSC 241240, Paraplatin, JM 8
Purity	>98%
Description	Cisplatin analog. Blocks DNA replication and transcription.

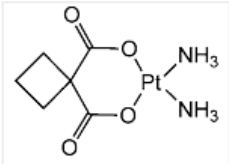
Biological Data

Biological description	Potent platinum-based antineoplastic agent. Analog of cisplatin with reduced nephrotoxicity and higher stability. Antitumor agent. Forms inter- and intrastrand DNA adducts/crosslinks, consequently blocking DNA replication and transcription and inducing cell death. Interferes with cell division by mitosis. The damaged DNA elicits DNA repair mechanisms, which in turn activate apoptosis when repair is impossible. Apoptosis inducer. Enhances radiation-induced single-strand DNA breakage.
-------------------------------	---

Solubility & Handling

Storage instructions	+4 °C
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	cis-Diammine(cyclobutane-1,1-dicarboxylate-O,O')platinum(II)
Molecular Weight	371.3
Chemical structure	 The chemical structure of Carboplatin shows a central platinum (Pt) atom in a square planar geometry. It is coordinated to two ammonia (NH3) ligands and two oxygen atoms that are part of a cyclobutane-1,1-dicarboxylate ring. The cyclobutane ring is fused to a five-membered chelate ring containing the platinum atom and two oxygen atoms.
Molecular Formula	C ₆ H ₁₂ N ₂ O ₄ Pt
CAS Number	41575-94-4
PubChem identifier	10339178
SMILES	O=C(C21CCC2)O[Pt-2]([NH3+])([NH3+])OC1=O
InChiKey	YAYRGNWWLMLWJE-UHFFFAOYSA-L
Appearance	White to off-white powder