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# **DATASHEET**

Carboplatin

#### **Product overview**

Name Carboplatin Cat No HB3824

NSC 241240, Paraplatin, JM 8 **Alternative names** 

**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 Storage of solutions

+4°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions Important** 

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Molecular Weight **Chemical structure**  cis-Diammine(cyclobutane-1,1-dicarboxylate-O,O')platinum(II)

371.3  $NH_3$ NH<sub>3</sub>

Molecular Formula **CAS Number PubChem identifier** 

**SMILES** InChiKey **Appearance**   $C_6H_{12}N_2O_4Pt$ 41575-94-4 10339178

O=C(C21CCC2)O[Pt-2]([NH3+])([NH3+])OC1=O YAYRGNWWLMLWJE-UHFFFAOYSA-L

White to off-white powder