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DATASHEET

Carboplatin

Product overview

NameCarboplatinCat NoHB3824

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

Important

+4°C

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

O O NH₃

Molecular Formula $C_6H_{12}N_2O_4Pt$ CAS Number41575-94-4PubChem identifier10339178

 SMILES
 O=C(C21CCC2)O[Pt-2]([NH3+])([NH3+])OC1=O

 InChiKey
 YAYRGNWWLMLWJE-UHFFFAOYSA-L

Appearance White to off-white powder