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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. |

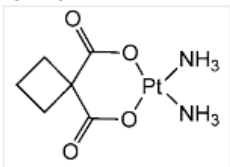
Biological Data

| | |
|-------------------------------|---|
| 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

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|-----------------------------|---|
| 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 shows a central platinum (Pt) atom coordinated to two ammonia (NH3) ligands and two oxygen atoms of a cyclobutane-1,1-dicarboxylate ligand. 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 |