

Cisplatin, Anticancer agent

| Catalog | Unit |
|---------------|--------|
| TBI2204-100MG | 100 mg |
| TBI2204-500MG | 500 mg |

Product Details

Formal Name: Cis-Diaminodichloroplatinum

Alternate Names: CDDP; cis-Diamineplatinum(II) dichloride

Molecular Formula: Cl₂H₄N₂Pt

Formula Weight: 300.05

CAS Number: 15663-27-1

Purity: >98%

Formulation: powder

Solubility: Soluble in Water (up to 2.5 mg/ml with warming). Note: Compound will dissolve in DMSO, but DMSO inactivates cytotoxicity.

Storage: RT

Stability: ≥ 1 year.



Applications

Anticancer agent

Functions

Induces intra- and interstrand DNA adducts which poison topoisomerase I. Synergizes with topoisomerase I inhibitors such as topotecan. Induces apoptosis by sequential activation of caspase-8, -3 and -6 in osteosarcoma cells. Inhibits expression of X-linked inhibitor of apoptosis protein (XIAP) in human LNCaP cells. Numerous mechanisms inhibit propagation of cisplatin-induced DNA damage to signal apoptosis resulting in resistance. Clinically useful anticancer agent.

Application Procedures

First dissolved in Water (up to 2.5 mg/ml with warming), then diluted to aqueous buffer. Solutions in distilled water are not stable and must be used within 1 working day. do not store solutions.

For research use only.