

Product Name: Oxaliplatin

Catalog No.: 2623

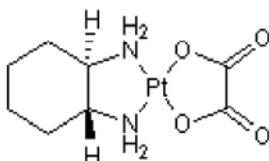
Batch No.: 5

CAS Number: 61825-94-3

IUPAC Name: Oxalato[(1*R*-trans)-1,2-cyclohexanediamine]platinum(II)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₄N₂O₄Pt
Batch Molecular Weight: 397.29
Physical Appearance: White solid
Solubility: water to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	24.19	3.55	7.05
Found	24.29	3.48	7

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Antitumor agent that forms platinum-DNA adducts. Causes intra- and interstrand DNA crosslinks blocking DNA replication and transcription. Displays higher cytotoxicity and lower nephrotoxicity than analog cisplatin (Cat. No. 2251) and shows antitumor activity in cell lines with acquired cisplatin resistance.

Physical and Chemical Properties:

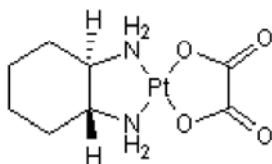
Batch Molecular Formula: C₈H₁₄N₂O₄Pt

Batch Molecular Weight: 397.29

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 5 mM with gentle warming

Even though it is soluble in DMSO, the use of DMSO to dissolve Oxaliplatin in biological studies should be strongly discouraged. The DMSO was found to insert itself into the ligand, resulting in loss of activity. See Hall *et al.* (2014), Cancer research published online. PMID: 24812268.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Mani *et al* (2002) Oxaliplatin: a review of evolving concepts. *Cancer Invest.* **20** 246. PMID: 11901545.

Raymond *et al* (2002) Cellular and molecular pharmacology of oxaliplatin. *Mol.Cancer Ther.* **1** 227. PMID: 12467217.

Culy *et al* (2000) Oxaliplatin. A review of its pharmacological properties and clinical efficacy in metastatic colorectal cancer and its potential in other malignancies. *Drugs* **60** 895. PMID: 11085200.

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