

Satraplatin

Chemical Properties

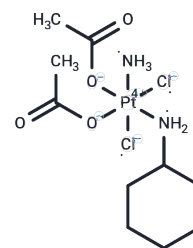
CAS No. : 129580-63-8

Formula: C₁₀H₂₂Cl₂N₂O₄Pt

Molecular Weight: 500.28

Storage:

Keep away from direct sunlight, The compound is unstable in solution. Please use soon
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Satraplatin (BMS182751) is an orally available antineoplastic platinum(IV) complex. Satraplatin has a favorable toxicity profile and appears to have clinical activity against a variety of malignancies.
Targets(IC50)	DNA Alkylation, DNA Alkylator/Crosslinker
In vitro	KB-R cells did not show cross-resistance to satraplatin. The expression status of almost all transporters was upregulated in the KB-R cells. There was no difference in the GSH levels between the KB and KB-R cells. Flow cytometric analysis indicated that with satraplatin the G2/M phase was arrested in the KB-R cells. KB-R cells contain enriched side population cells[1].
Cell Research	CDDP-resistant (KB-R) cells and parental cells (KB) pair were used. Viability was assessed using the MTT and clonogenic assay. Real-time polymerase chain reaction (PCR), glutathione (GSH) assay, and flow cytometric analysis were used for further assessment[1].

Solubility Information

Solubility	DMSO: 33 mg/mL (65.96 mM), DMSO inactivates the activity of Satraplatin. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9989 mL	9.9944 mL	19.9888 mL
5 mM	0.3998 mL	1.9989 mL	3.9978 mL
10 mM	0.1999 mL	0.9994 mL	1.9989 mL
50 mM	0.040 mL	0.1999 mL	0.3998 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yamano Y , Shiiba M , Negoro K , et al. Antitumor activity of satraplatin in cisplatin-resistant oral squamous cell carcinoma cells[J]. Head & Neck, 2010, 33(3):309-317.

Li R, Li Y, Jiang K, et al. Lighting up arginine metabolism reveals its functional diversity in physiology and pathology. Cell Metabolism. 2024

Bhargava A , Vaishampayan U N . Satraplatin: leading the new generation of oral platinum agents[J]. Expert Opinion on Investigational Drugs, 2009, 18(11):1787-1797.

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