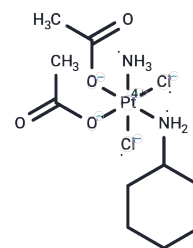


## Satraplatin

## Chemical Properties

CAS No. :	129580-63-8
Formula:	C <sub>10</sub> H <sub>22</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub> Pt
Molecular Weight:	500.28
Storage:	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

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	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

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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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