

产品名称：顺式-二氯-反式-二乙酸-氨-环己胺合铂
 产品别名：**Satraplatin**；赛特铂

生物活性：					
Description	Satraplatin is an alkylating agent, with potent antitumor effect.				
In Vitro	Satraplatin has potent antitumor activity. Satraplatin combined with dichloroacetate (DCA) inhibits UMC-11 cells with an IC50 of 1.36 ± 0.11 μM[1]. Satraplatin also suppresses CDDP-resistant (KB-R) cells (IC50, 7.04 μM), and causes G2/M arrest in KB-R cells[2].				
Solvent&Solubility	In Vitro: DMSO : ≥ 33 mg/mL (65.96 mM; DMSO can inactivate Satraplatin's activity) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		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
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。				
References	[1]. Fiebiger W, et al. In vitro cytotoxicity of novel platinum-based drugs and dichloroacetate against lung carcinoid cell lines. Clin Transl Oncol. 2011 Jan;13(1):43-9. [2]. Yamano Y, et al. Antitumor activity of satraplatin in cisplatin-resistant oral squamous cell carcinoma cells. Head Neck. 2011 Mar;33(3):309-17.				
实验参考：					
Cell Assay	Cells are harvested, counted and distributed to microtiter plates in 100 μL medium at a density of 1×10 ⁴ cells/well. Appropriate dilutions of test compounds (Satraplatin, etc.) are added to a total volume of 200 μL/well and plates incubated under tissue culture conditions for four days. Stock solutions of the compounds are prepared in either 70% ethanol or DMSO and diluted more than 100-fold for the assays. Solvent controls are included in all tests. Dose response curves are obtained by assessing cell proliferation at twofold drug dilutions in triplicate and used for calculation of IC50 values. Cell growth is quantified using a modified tetrazolium dye assay (MTT) and by measurement of the reduced formazane dye at 450 nm wavelength (medium control set to 100% proliferation)[1].				
References	[1]. Fiebiger W, et al. In vitro cytotoxicity of novel platinum-based drugs and dichloroacetate against lung carcinoid cell lines. Clin Transl Oncol. 2011 Jan;13(1):43-9. [2]. Yamano Y, et al. Antitumor activity of satraplatin in cisplatin-resistant oral squamous cell carcinoma cells. Head Neck. 2011 Mar;33(3):309-17.				