



上海源叶生物科技有限公司
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产品名称: **Pyridostatin (hydrochloride)**

产品别名: **RR82 hydrochloride**

生物活性:

Description	Pyridostatin hydrochloride (RR82 hydrochloride) is a G-quadruplexe stabilizer, with a K_d of 490 nM.				
IC ₅₀ & Target	Kd: 490 nM (G-quadruplexe) ^[1]				
In Vitro	Pyridostatin hydrochloride is a G-quadruplexe stabilizer, with a K_d of 490 nM ^[1] . Pyridostatin (PDS) shows neurotoxic activity against primary cortical neurons at 0.01-5 μ M, causes DNA double-strand breaks (DSBs) at 1 μ M, downregulates BRCA1 in neurons at 1, 2 or 5 μ M ^[2] . Pyridostatin interacts with G-quadruplex motifs in SRC and alters mRNA levels of damaged genes ^[3] .				
Solvent&Solubility	In Vitro: H ₂ O : 50 mg/mL (64.19 mM; Need ultrasonic)				
	Preparing Stock Solutions	SolventMassConcentration	1 mg	5 mg	10 mg
		1 mM	1.2838 mL	6.4190 mL	12.8380 mL
		5 mM	0.2568 mL	1.2838 mL	2.5676 mL
		10 mM	0.1284 mL	0.6419 mL	1.2838 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°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
	References	[1]. Koirala D, et al. A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands. Nat Chem. 2011 Aug 28;3(10):782-7. [2]. Moruno-Manchon JF, et al. The G-quadruplex DNA stabilizing drug pyridostatin promotes DNA damage and downregulates transcription of Brca1 in neurons. Aging (Albany NY). 2017 Sep 12;9(9):1957-1970. [3]. Rodriguez R, et al. Small-molecule-induced DNA damage identifies alternative DNA structures in human genes. Nat Chem Biol. 2012 Feb 5;8(3):301-10.			
实验参考:					
Cell Assay	Cells are plated at equal confluence and either untreated or treated with 2 μ M Pyridostatin continually for 72 h. Cells from individual plates are trypsinized and counted in a Coultercounter. Graphs represent total cell numbers at each time interval and error bars represent S.E.M. Data represent three independent experiments ^[3] .				
References	[1]. Koirala D, et al. A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands. Nat Chem. 2011 Aug 28;3(10):782-7. [2]. Moruno-Manchon JF, et al. The G-quadruplex DNA stabilizing drug pyridostatin promotes DNA damage and downregulates transcription of Brca1 in neurons. Aging (Albany NY). 2017 Sep				



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