

产品名称: Tyrphostin AG 879

产品别名: AG 879

生物活性:						
Description	Tyrphostin AG 879 (AG 879) is a tyrosine kinase inhibitor that inhibits TrKA phosphorylation (IC50 of 10 μ M), but not TrKB and TrKC. Tyrphostin AG 879 is also a selective ErbB2 tyrosine kinase inhibitor with an IC50 of 1 μ M, and has at least 500-fold higher selectivity to ErbB2 than EGFR. Tyrphostin AG 879 has anticancer activity[1][2][3].					
	<p>Tyrphostin AG 879 (0.5-50 μM; 48 hours; HL-60, U-937, PC-3, HTB-82, HTB-114, TE-671, HTB-115 and HTB-88 cells) treatment significantly and dose dependently decreases cell proliferation in all the cell lines[1].</p> <p>Tyrphostin AG 879 (0.5-50 μM; 48 hours; HL-60, U-937, PC-3, HTB-82, HTB-114, TE-671, HTB-115 and HTB-88 cells) treatment also induces a dose-dependent increase in apoptosis with the exception of the lines TE-671 and HTB-88 cells[1].</p>					
In Vitro	Cell Proliferation Assay					
	Cell Line:	HL-60, U-937, PC-3, HTB-82, HTB-114, TE-671, HTB-115 and HTB-88 cells [1]				
	Concentration:	0.5 μ M, 5 μ M, 20 μ M and 50 μ M				
	Incubation Time:	48 hours				
	Result:	Significantly and dose dependently decreased cell proliferation in all the cell lines.				
	Apoptosis Analysis					
	Cell Line:	HL-60, U-937, PC-3, HTB-82, HTB-114, TE-671, HTB-115 and HTB-88 cells [1]				
	Concentration:	0.5 μ M, 5 μ M, 20 μ M and 50 μ M				
	Incubation Time:	48 hours				
	Result:	Induced a dose-dependent increase in apoptosis.				
	In Vivo	Tyrphostin AG 879 (100 mg/kg;subcutaneous injection; administered 10 times in 19 days; for 21 days; athymic, immunodepressed NOD/SCID female mice) treatment induces in vivo a decrease in cancer growth in grafted athymic NOD/SCID mice[1].				
		Animal Model:	Athymic, immunodepressed NOD/SCID female mice (20 g) with HTB-114 and HL-60 cells[1]			
Dosage:		100 mg/kg				
Administration:		Subcutaneous injection; administered 10 times in 19 days; for 21 days				
Result:		Resulted in dramatic reductions in tumor sizes.				
Solvent&Solubility	In Vitro:					
	DMSO : \geq 30 mg/mL (94.80 mM)					
	* ">" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.1600 mL	15.7998 mL	31.5996 mL
		5 mM	0.6320 mL	3.1600 mL	6.3199 mL	
10 mM		0.3160 mL	1.5800 mL	3.1600 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	<p>[1]. Rende M et al. Role of nerve growth factor and its receptors in non-nervous cancer growth: efficacy of a tyrosine kinase inhibitor (AG879) and neutralizing antibodies antityrosine kinase receptor A and antinerve growth factor: an in-vitro and in-vivo study. <i>Anticancer Drugs</i>. 2006 Sep;17(8):929-41.</p> <p>[2]. Zhou Y et al. Blockade of EGFR and ErbB2 by the novel dual EGFR and ErbB2 tyrosine kinase inhibitor GW572016 sensitizes human colon carcinoma GEO cells to apoptosis. <i>Cancer Res</i>. 2006 Jan 1;66(1):404-11.</p> <p>[3]. Levitzki A, et al. Tyrosine kinase inhibition: an approach to drug development. <i>Science</i>. 1995 Mar 24;267(5205):1782-8.</p>



源叶生物