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产品名称: (4-甲氧基苄烯)丙二腈

产品别名: Tyrphostin A1 ; Tyrphostin 1; AG9

生物活性:				
Description	Tyrphostin A1(AG9) inhibits CD40L-stimulated IL-12 production in macrophage cultures and antigen-induced generation of Th1 cells. IC50 value: Target: IL-12 production inhibitor Addition of increasing concentration of A1 resulted in a dose dependent decrease of IL-12 p40, with maximal inhibition (62.5%) occurring at a dose of 10 μ M. tyrphostin A1 blocks CD40L-induced translocation of NF- κ B to the nucleus, and reduces the activation of IL-12 p40 gene. In vivo therapy with A1 leads to decrease in generation of myelin basic protein (MBP) specific encephalitogenic T cells. In addition, treatment of SJL/J mice with A1 results in attenuation of experimental allergic encephalomyelitis (EAE) [1]. Tyrphostin A1 is a much weaker inhibitor of TK than other tyrphostins (IC50>1250 μ M for epidermal growth factor receptor (EGFR) kinase), and therefore often used to differentiate TK-mediated effects of tyrphostins from other non-specific effects [2].			
Solvent&Solubility	In Vitro: DMSO : $\geq$ 100 mg/mL (542.92 mM) * ">" means soluble, but saturation unknown.			
		Solvent Concentration	Mass Concentration	
	Preparing	1 mM	5.4292 mL	27.1459 mL
	Stock Solutions	5 mM	1.0858 mL	5.4292 mL
		10 mM	0.5429 mL	2.7146 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。 In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂: ——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: $\geq$ 2.5 mg/mL (13.57 mM); Clear solution 此方案可获得 $\geq$ 2.5 mg/mL (13.57 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中, 混合均匀。				
[1]. Du C, et al. Inhibition of CD40 signaling pathway by tyrphostin A1 reduces secretion of IL-12 in macrophage, Th1 cell development and experimental allergic encephalomyelitis in SJL/J mice. J				



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References

- Neuroimmunol. 2001 Mar 1;114(1-2):69-79.
- [2]. Ogura T, et al. Activation of background membrane conductance by the tyrosine kinase inhibitor tyrphostin A23 and its inactive analog tyrphostin A1 in guinea pig ventricular myocytes. Jpn J Pharmacol. 2001 Nov;87(3):235-9.



源叶生物