



上海源叶生物科技有限公司
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产品名称: **MRS1220**
CAS 号: **183721-15-5**
产品货号: **T77865**

生物活性:

Description	MRS1220, a highly potent and selective human A3 adenosine receptor (hA3AR) antagonist with a Ki of 0.59 nM, has therapeutic potential for the research of diseases of the central nervous system[1]. MRS1220 reduces glioblastoma tumor size and blood vessel formation in vivo[2].				
In Vitro	MRS 1220 reverses the effect of A3 agonist-elicited inhibition of tumor necrosis factor-α formation in the human macrophage U-937 cell line with an IC50 of 0.3 μM[1].				
	VEGF secretion in U87MG glioblastoma stem-like cells (GSCs) decreases ~25% with MRS1220 after 72 h of hypoxia[2].				
	Cell Viability Assay[2]				
	Cell Line:	U87MG GSCs			
	Concentration:	10 μM			
	Incubation Time:	72 hours			
In Vivo	Result:	Decreased ~25% VEGF secretion.			
	MRS1220 (0.15 mg/kg; intraperitoneal inoculation) reduces tumor size and blood vessel formation in vivo. MRS1220 exhibits a strong in vivo anti-angiogenic effect[2].				
	Animal Model:	Eight, 8 week-old male Sprague-Dawley rats bearing C6 (GSCs)[2]			
	Dosage:	0.15 mg/kg/72 h			
	Administration:	Administered by intraperitoneal inoculation, for fifteen days			
Solvent&Solubility	Result:	A reduction close to 80% and 90% in tumor volume compared to the vehicle-treated group at day ten and fifteen post-treatment, respectively.			
	细胞实验:				
	DMSO 中的溶解度 : 4 mg/mL (9.91 mM; 超声助溶 (<60°C); 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.4764 mL	12.3818 mL	24.7635 mL
5 mM		0.4953 mL	2.4764 mL	4.9527 mL	
10 mM		---	---	---	
* 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 (sealed storage, away from moisture and light)。-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。					
参考文献	[1]. K A Jacobson, et al. Pharmacological characterization of novel A3 adenosine receptor-selective antagonists. Neuropharmacology. 1997 Sep;36(9):1157-65.				
	[2]. René Rocha, et al. The Adenosine A3 Receptor Regulates Differentiation of Glioblastoma Stem-Like Cells to Endothelial Cells under Hypoxia. Int J Mol Sci. 2018 Apr 18;19(4):1228.				
完整储备液配制表:					
* 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 (sealed storage, away from moisture and light)。-80°C 储存时,					



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可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
	浓度				
DMSO	1 mM	2.4764 mL	12.3818 mL	24.7635 mL	61.9088 mL
	5 mM	0.4953 mL	2.4764 mL	4.9527 mL	12.3818 mL



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