



上海源叶生物科技有限公司
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产品名称: **KHS101**
CAS 号: **1262770-73-9**
产品货号: **S88335**

生物活性:

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Description		KHS101 是一种加速神经元分化的小分子。KHS101 可分布到脑内，导致神经元分化显著增加。		
Cellular Effect	Cell Line	Type	Value	Description
	JIMT-1	IC ₅₀	32.98 μM	Antiproliferative activity against human JIMT-1 cells assessed as cell growth inhibition measured after 72 hrs by MTT assay
	MDA-MB-231	IC ₅₀	31.13 μM	Antiproliferative activity against human MDA-MB-231 cells assessed as cell growth inhibition measured after 72 hrs by MTT assay
	SK-OV-3	IC ₅₀	21.44 μM	Antiproliferative activity against human SK-OV-3 cells assessed as cell growth inhibition measured after 72 hrs by MTT assay
	U-251	IC ₅₀	49.13 μM	Cytotoxicity against human U251 cells assessed as inhibition of cell growth measured after 72 hrs by MTT assay
	U-87MG ATCC	IC ₅₀	37.85 μM	Antiproliferative activity against human U87 cells assessed as inhibition of cell growth incubated for 72 hrs by MTT assay
	In Vitro	KHS101 诱导贴壁培养大鼠 NPCs 神经元分化呈剂量依赖性 (EC50 ~ 1 μM)[1]。		
KHS101 (5 μM) 抑制 NPCs 星形胶质细胞形成[1]。< br /> KHS101 (5 μM; 24-72 h) 对 NPCs 细胞周期进程和增殖有负面影响[1]。				
KHS101 与 TACC3 蛋白特异性相互作用[1]。				
KHS101 (0-15 μM; 24 h) 调控转录因子 ARNT2 的核定位[1]。				
RT-PCR[1]				
Cell Line:		Rat NPCs		
Concentration:		0.6, 1.7 and 5 μM		
Incubation Time:		24 h		
Result:		Showed a dose-dependent induction of <i>Cdkn1</i> mRNA expression.		
Cell Proliferation Assay[1]				
Cell Line:	Rat NPCs			
Concentration:	5 μM			
Incubation Time:	24, 48 and 72 h			
Result:	The vast majority of NPCs stop proliferating within 72 h, become mitotically inactive.			
In Vivo	KHS101 (6 mg/kg; s.c.; BID for 14 days) 在体内分布于大鼠脑内，显著促进神经元分化[1]			
	Animal Model:	Adult Fisher 344 rats (~ 10 wk old)[1]		
	Dosage:	6 mg/kg		
	Administration:	SC, BID for 14 days		



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	Result:	Increased neuronal differentiation. Reduced proliferation of NPCs.
参考文献	[1]. Wurdak H, et al. A small molecule accelerates neuronal differentiation in the adult rat. Proc Natl Acad Sci U S A. 2010 Sep 21;107(38):16542-7.	



源叶