



上海源叶生物科技有限公司
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产品名称: **RP-64477**
CAS 号: **135239-65-5**
产品货号: **S88772**

生物活性:

Description	RP-64477 是胆固醇酯化酶酰基辅酶 A: 胆固醇 O-酰基转移酶 (ACAT) 的有效抑制剂。				
IC50 & Target	ACAT[1]				
In Vitro	RP-64477 is a potent inhibitor of the cholesterol esterifying enzyme Acyl-coenzyme A:cholesterol O-acyltransferase (ACAT). Inhibitory potencies of RP-64477 in vitro in tissue preparations are obtained from a range of species and in human cell cultures. For animal tissues, IC50 values in the range 6 to 283 nM are recorded, with no obvious species/tissue differences apparent. Potent inhibitory activity of RP-64477 is also recorded in human cell lines of hepatic (HepGZ), intestinal (CaCo-2), and monocytic (THP-1) origin with IC50s of 503, 113, and 180 nM, respectively. No inhibitory activity is recorded against rat PCEH or LCAT at test concentrations up to 200 μM and 20 μM, respectively[1].				
In Vivo	Administration of RP-64477 (0.01% and 0.03% w/w by diet) reduces significantly plasma cholesterol levels in cholesterol/cholic acid-fed rats by 29% and 61%, respectively. Food consumption is not affected by dietary incorporation of RP-64477. Animals receiving RP-64477 (10 and 30 mg/kg b.i.d.) over this period exhibit significantly lower plasma cholesterol levels on both days 4 and 7 when compare to values recorded from vehicle treated animals fed the cholesterol-containing diet. Compare to cholesterol-fed controls, after 7 days of dosing, plasma cholesterol levels are 35% and 53% lower in animals receiving 10 and 30 mg/kg b.i.d. doses of RP-64477, respectively[1].				
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 8.33 mg/mL (16.70 mM; 超声助溶; 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	2.0051 mL	10.0257 mL	20.0513 mL
		5 mM	0.4010 mL	2.0051 mL	4.0103 mL
		10 mM	0.2005 mL	1.0026 mL	2.0051 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。					
参考文献	[1]. Bello AA, et al. RP 64477: a potent inhibitor of acyl-coenzyme A:cholesterol O-acyltransferase with low systemic bioavailability. Biochem Pharmacol. 1996 Feb 23;51(4):413-21.				

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。-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。

可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	2.0051 mL	10.0257 mL	20.0513 mL	50.1283 mL



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	5 mM	0.4010 mL	2.0051 mL	4.0103 mL	10.0257 mL
	10 mM	0.2005 mL	1.0026 mL	2.0051 mL	5.0128 mL
	15 mM	0.1337 mL	0.6684 mL	1.3368 mL	3.3419 mL



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