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产品名称: **EHT 1864**
产品别名: **EHT 1864**

生物活性:				
Description	EHT 1864 is an inhibitor of Rac family small GTPases. EHT 1864 directly binds and impairs the ability of this small GTPase to engage critical downstream effectors required for growth transformation. The Kd values are 40, 50, 60, and 230 nM for Rac1, Rac1b, Rac2 and Rac3, respectively. EHT 1864 also potently inhibits other Rac-dependent transformation processes, Tiam1- and Ras-mediated growth transformation. EHT 1864 prevents A β 40 and A β 42 production in vivo[1][2][3].			
In Vivo	EHT 1864 (oral administration) displays good tolerability, brain penetrance, and no genotoxicity. EHT 1864 (10 and 40 mg/kg/day; daily; 15 days; intraperitoneal injections) lowers brain A β 40 by 37% in guinea pigs[1].			
Solvent&Solubility	In Vitro: H ₂ O : ≥ 100 mg/mL (171.97 mM) DMSO : ≥ 32 mg/mL (55.03 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	<div>SolventMassConcentration</div>	1 mg	5 mg
		1 mM	1.7197 mL	8.5987 mL
		5 mM	0.3439 mL	1.7197 mL
		10 mM	0.1720 mL	0.8599 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	[1]. Desire L, et al. RAC1 inhibition targets amyloid precursor protein processing by gamma-secretase and decreases Abeta production in vitro and in vivo. J Biol Chem. 2005 Nov 11;280(45):37516-25. [2]. Shutes A, et al. Specificity and mechanism of action of EHT 1864, a novel small molecule inhibitor of Rac family small GTPases. J Biol Chem. 2007 Dec 7;282(49):35666-78. [3]. Onesto C, et al. Characterization of EHT 1864, a novel small molecule inhibitor of Rac family small GTPases. Methods Enzymol. 2008;439:111-29.			