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产品名称: **GSK137647A**
产品别名: **GSK137647A**

生物活性:				
Description	GSK137647A is a selective FFA4 agonist, with pEC50 of 6.3, 6.2, and 6.1 for human, Mouse and Rat FFA4, respectively. IC50 value: 6.3/6.2/6.1 (pEC50, for human/mouse/rat FFA4) Target: FFA4 The pEC50s for Human , Mouse and Rat FFA1/2/3 are < 4.5. GSK137647A is evaluated against a panel of 65 targets in both full curve functional and binding assays and was shown to provide at least 100-fold selectivity against the panel which included 41 G-protein-coupled receptors (GPCRs), including additional members of the free fatty acid receptors (FFA1, FFA2, and FFA3). GSK137647A produces a concentration-dependent increase in glucose stimulated insulin secretion under high glucose conditions (25 mM).			
Solvent&Solubility	In Vitro: DMSO : ≥ 100 mg/mL (327.45 mM) H₂O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	3.2745 mL	16.3725 mL
	Stock Solutions	5 mM	0.6549 mL	3.2745 mL
		10 mM	0.3275 mL	1.6373 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: ≥ 2.5 mg/mL (8.19 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (8.19 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 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。				
References	[1]. Sparks SM, et al. Identification of diarylsulfonamides as agonists of the free fatty acid receptor 4 (FFA4/GPR120). Bioorg Med Chem Lett. 2014 Jul 15;24(14):3100-3.			