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产品名称: **BVT-14225**

产品别名: **BVT-14225**

生物活性:				
Description	BVT-14225 is a selective 11 $\beta$ -Hydroxysteroid dehydrogenase type 1 (11 $\beta$ -HSD1) inhibitor with an IC <sub>50</sub> of 52 nM.			
IC <sub>50</sub> & Target	IC50: 52 nM (11 $\beta$ -HSD1)[1]			
In Vitro	Selective inhibition of 11 $\beta$ -HSD1 decreases blood glucose concentrations in hyperglycaemic mice. Selective inhibitors of 11 $\beta$ -HSD1 have considerable potential as treatments for a number of diseases of great unmet medical need such as type 2 diabetes, obesity and metabolic syndrome, a multifactorial disorder. BVT-14225 shows high activity in the enzyme assay with 90% inhibition at 10 $\mu$ M. It has an IC <sub>50</sub> for 11 $\beta$ -HSD1 on a human enzyme assay of 52 nM[2].			
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : <math>\geq</math> 27 mg/mL (67.18 mM)</b> <small>* "<math>\geq</math>" means soluble, but saturation unknown.</small>			
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	
		<b>Concentration</b>		
			<b>1 mg</b>	<b>5 mg</b>
			<b>10 mg</b>	
		1 mM	2.4880 mL	12.4400 mL
		5 mM	0.4976 mL	2.4880 mL
		10 mM	0.2488 mL	1.2440 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]. Barf T, et al. Arylsulfonamidothiazoles as a new class of potential antidiabetic drugs. Discovery of potent and selective inhibitors of the 11beta-hydroxysteroid dehydrogenase type 1. J Med Chem. 2002 Aug 29;45(18):3813-5. [2]. Vicker N, et al. Novel non-steroidal inhibitors of human 11beta-hydroxysteroid dehydrogenase type 1. J Steroid Biochem Mol Biol. 2007 May;104(3-5):123-9.			