



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyyssw@sina.com

产品名称: **DJ-V159**
CAS 号: **2253744-53-3**
产品货号: **S88614**

生物活性:

Description	DJ-V-159 是 G 蛋白偶联受体家族 C 组 6 A (GPCR6A) 的激动剂。				
IC50 & Target	GPCR6A[1]				
In Vitro	DJ-V-159 activates ERK in HEK-293 transfected with GPCR6A but not in non-transfected HEK-293 cells, with potency similar to L-Arg. In addition, DJ-V-159 dose-dependently stimulates cAMP production in GPCR6A expressing HEK-293 cells, achieving a response at 0.2 nM concentrations in the media. DJ-V-159 stimulates insulin secretion in mouse beta-cell MIN-6 cells. The DJ-V-159 increased insulin stimulation index (SI) in MIN-6 cells similar to the effects of Ocn, known ligand of GPCR6A[1].				
In Vivo	DJ-V-159 at the dose of 10 mg/kg reduces blood glucose levels in wildtype mice at 60 and 90 minutes after intraperitoneal administration of 10 mg/kg, whereas the vehicle (95% PEG + 5% DMSO) has no effect on blood glucose. DJ-V-159 reduces blood glucose levels in wild-type mice by 43.6% and 41.9% at 60 and 90 minutes, respectively, after intraperitoneal administration of 10 mg/kg. The mice tolerated this short-term exposure to DJ-V-159 without any overt side-effects. DJ-V-159, however, is almost in or on the boundary of the Lipinski's Rule of Five[1].				
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 25 mg/mL (49.76 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	1.9906 mL	9.9528 mL	19.9056 mL
		5 mM	0.3981 mL	1.9906 mL	3.9811 mL
		10 mM	0.1991 mL	0.9953 mL	1.9906 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℃, 2 years; -20℃, 1 year. -80℃ 储存时, 请在 2 年内使用, -20℃ 储存时, 请在 1 年内使用。				
参考文献	[1]. Pi M, et al. Computationally identified novel agonists for GPCR6A. PLoS One. 2018 Apr 23;13(4):e0195980.				

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, 2 years; -20° C, 1 year。-80° C 储存时, 请在 2 年内使用, -20° C 储存时, 请在 1 年内使用。

可选溶剂	质量 / 溶剂体积 / 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	1.9906 mL	9.9528 mL	19.9056 mL	49.7641 mL
	5 mM	0.3981 mL	1.9906 mL	3.9811 mL	9.9528 mL
	10 mM	0.1991 mL	0.9953 mL	1.9906 mL	4.9764 mL



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

	15 mM	0.1327 mL	0.6635 mL	1.3270 mL	3.3176 mL
	20 mM	0.0995 mL	0.4976 mL	0.9953 mL	2.4882 mL
	25 mM	0.0796 mL	0.3981 mL	0.7962 mL	1.9906 mL
	30 mM	0.0664 mL	0.3318 mL	0.6635 mL	1.6588 mL
	40 mM	0.0498 mL	0.2488 mL	0.4976 mL	1.2441 mL



源叶