



上海源叶生物科技有限公司
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产品名称: **TASK-1-IN-1**

CAS 号: **600125-11-9**

产品货号: **S89959**

生物活性:						
Description		TASK-1-IN-1 is a potent and selective TASK-1 (Potassium Channel) inhibitor with an IC50 of 148 nM. TASK-1-IN-1 shows a reduced inhibition of TASK-3 channels (IC50 of 1750 nM) and not a significant effect on other K+ channels. TASK-1-IN-1 has anticancer effects.				
IC50 & Target		IC50: 148 nM (TASK-1) and 1750 nM (TASK-3)[1]				
In Vitro		TASK-1-IN-1 (compound F3) blocks cell proliferation and viability in the MCF-7 cancer cell line but not in TASK-1 knockdown MCF-7 cells, indicating that it is acting in TASK-1 channels[1].				
		Cell Proliferation Assay[1]				
		Cell Line:	MCF-7 cells			
		Concentration:	10 μM			
		Incubation Time:	96 hours			
		Result:	Showed an antiproliferative activity of ~ 45% on the cell line MCF-7.			
Solvent&Solubility		细胞实验:				
		DMSO 中的溶解度 : 66.67 mg/mL (193.58 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	SolventMassConcentration	1 mg	5 mg	10 mg
			1 mM	2.9035 mL	14.5176 mL	29.0352 mL
			5 mM	0.5807 mL	2.9035 mL	5.8070 mL
	10 mM	0.2904 mL	1.4518 mL	2.9035 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]. Bárbara Arévalo, et al. Selective TASK-1 Inhibitor with a Defined Structure-Activity Relationship Reduces Cancer Cell Proliferation and Viability. J Med Chem. 2022 Nov 24;65(22):15014-15027.				
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	2.9035 mL	14.5176 mL	29.0352 mL	72.5879 mL	
	5 mM	0.5807 mL	2.9035 mL	5.8070 mL	14.5176 mL	



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	10 mM	0.2904 mL	1.4518 mL	2.9035 mL	7.2588 mL
	15 mM	0.1936 mL	0.9678 mL	1.9357 mL	4.8392 mL
	20 mM	0.1452 mL	0.7259 mL	1.4518 mL	3.6294 mL
	25 mM	0.1161 mL	0.5807 mL	1.1614 mL	2.9035 mL
	30 mM	0.0968 mL	0.4839 mL	0.9678 mL	2.4196 mL
	40 mM	0.0726 mL	0.3629 mL	0.7259 mL	1.8147 mL
	50 mM	0.0581 mL	0.2904 mL	0.5807 mL	1.4518 mL
	60 mM	0.0484 mL	0.2420 mL	0.4839 mL	1.2098 mL
	80 mM	0.0363 mL	0.1815 mL	0.3629 mL	0.9073 mL
	100 mM	0.0290 mL	0.1452 mL	0.2904 mL	0.7259 mL



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