



上海源叶生物科技有限公司
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产品名称: **NFATc1-IN-1**

CAS 号: **1912422-56-0**

产品货号: **S89673**

生物活性:

Description	NFATc1-IN-1 (compound A04) is a potent inhibitor of RANKL-induced osteoclast formation, with an IC50 of 1.57 μM. NFATc1-IN-1 shows anti-osteoclastogenic effects through reducing the RANKL-induced nuclear translocation of NFATc1. NFATc1-IN-1 can be used for osteoclastic diseases research[1].				
In Vitro	NFATc1-IN-1 (compound A04) (0-2.5 μM, 4 days) exhibits potent inhibitory activities on osteoclast formation and function, which eventually translates into decreased bone resorption[1].				
	NFATc1-IN-1 (1.5-2.5 μM, 24 h) blocks NFATc1 nuclear translocation and decreases the level of NFATc1[1]				
	Cell Viability Assay[1]				
	Cell Line:	Osteoclast precursor RAW 264.7 cells			
	Concentration:	0, 0.5, 1.0, 1.5, 2.0 and 2.5 μM			
	Incubation Time:	4 days			
	Result:	Markedly reduced the number and size of red TRAP-positive multinucleated osteoclasts at concentrations of 1.5, 2.0, and 2.5 μM. Significantly inhibited formation of osteoclasts in a dose-dependent manner (at 1.5, 2.0 and 2.5 μM), while showing no cytotoxic effects towards osteoclast precursor cells at concentrations of as high as 2.5 μM.			
	Immunofluorescence[1]				
	Cell Line:	RAW264.7 cells			
	Concentration:	1.5 or 2.5 μM			
Incubation Time:	24 h				
Result:	Blocked NFATc1 nuclear translocation and decreased the level of NFATc1.				
Solvent&Solubility	细胞实验:				
	DMSO 中的溶解度 : 125 mg/mL (333.24 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	2.6659 mL	13.3294 mL	26.6588 mL
		5 mM	0.5332 mL	2.6659 mL	5.3318 mL
		10 mM	0.2666 mL	1.3329 mL	2.6659 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]. Chen CL, et al. Design, synthesis and SARs of novel salicylanilides as potent inhibitors of RANKL-induced osteoclastogenesis and bone resorption. Eur J Med Chem. 2016 Jul 19;117:70-84.				
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					



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可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	2.6659 mL	13.3294 mL	26.6588 mL	66.6471 mL
	5 mM	0.5332 mL	2.6659 mL	5.3318 mL	13.3294 mL
	10 mM	0.2666 mL	1.3329 mL	2.6659 mL	6.6647 mL
	15 mM	0.1777 mL	0.8886 mL	1.7773 mL	4.4431 mL
	20 mM	0.1333 mL	0.6665 mL	1.3329 mL	3.3324 mL
	25 mM	0.1066 mL	0.5332 mL	1.0664 mL	2.6659 mL
	30 mM	0.0889 mL	0.4443 mL	0.8886 mL	2.2216 mL
	40 mM	0.0666 mL	0.3332 mL	0.6665 mL	1.6662 mL
	50 mM	0.0533 mL	0.2666 mL	0.5332 mL	1.3329 mL
	60 mM	0.0444 mL	0.2222 mL	0.4443 mL	1.1108 mL
	80 mM	0.0333 mL	0.1666 mL	0.3332 mL	0.8331 mL
	100 mM	0.0267 mL	0.1333 mL	0.2666 mL	0.6665 mL

源叶