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产品名称: **NFAT INHIBITOR**

产品别名: **VIVIT peptide**

生物活性:					
Description	NFAT Inhibitor (VIVIT peptide) is a cell-permeable peptide inhibitor of nuclear factor of activated Tcells (NFAT) that selectively inhibits calcineurin-mediated dephosphorylation of NFAT[1][2].				
IC <sub>50</sub> & Target	Nuclear factor of activated Tcells (NFAT)[1][2]				
In Vitro	NFAT Inhibitor treatment significantly inhibits nuclear translocation of NFATc1 for 24 hours. Long-term treatment with VIVIT significantly inhibits the cytoplasmic levels of cathepsin K, TRAP, and MMP-9[2].				
	Western Blot Analysis[2]				
	Cell Line:	Human peripheral blood CD14 <sup>+</sup> monocytes			
	Concentration:	10 μM			
	Incubation Time:	24 hours or 21 days			
	Result:	Short-term treatment with 10 μM, significantly inhibited nuclear translocation of NFATc1. Long-term treatment, significantly inhibited the cytoplasmic levels of cathepsin K, TRAP, and MMP-9.			
Solvent&Solubility	In Vitro:				
	H <sub>2</sub> O : 100 mg/mL (59.31 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	0.5931 mL	2.9657 mL	5.9314 mL
		5 mM	0.1186 mL	0.5931 mL	1.1863 mL
		10 mM	0.0593 mL	0.2966 mL	0.5931 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。					
References	[1]. Aramburu J, et al. Affinity-driven peptide selection of an NFAT inhibitor more selective than cyclosporin A. Science. 1999 Sep 24;285(5436):2129-33. [2]. Ma JD, et al. Activation of the Peroxisome Proliferator-Activated Receptor γ Coactivator 1β/NFATc1 Pathway in Circulating Osteoclast Precursors Associated With Bone Destruction in Rheumatoid Arthritis. Arthritis Rheumatol. 2019 Aug;71(8):1252-1264.				