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产品名称: **Autocamtide 2 trifluoroacetate salt**
产品别名: **Autocamtide 2; Autocamtide II**

生物活性:				
Description	Autocamtide 2 is a highly selective peptide substrate of calcium/calmodulin-dependent protein kinase II (CaMKII). It can be used in the CaMKII activity assay.			
In Vitro	The Ca/calmodulin dependent protein kinases (CaMKs) are multifunctional serine/threonine kinases whose activity are regulated through Ca^{2+} signaling. It is multifunctional best known for its critical role in learning and memory. Recent studies demonstrates that high levels of different isoform of CaMK, especially for CaMKII, expresses in several cancers such as lung, breast, prostate and colon cancer. CaMKII phosphorylates nearly 40 different proteins, including enzymes, ion channels, kinases, and transcription factors and plays a critical role in the regulation of proliferation, differentiation and survival of various cancer cells ^[1] .			
Solvent&Solubility	In Vitro: H₂O : 20 mg/mL (13.09 mM; Need ultrasonic)			
	<div>Preparing Stock Solutions</div>	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg
		1 mM	0.6545 mL	3.2727 mL
		5 mM	0.1309 mL	0.6545 mL
		10 mM	0.0655 mL	0.3273 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]. Wang YY, et al. The emerging role of CaMKII in cancer. Oncotarget. 2015 May 20;6(14):11725-34.			