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产品名称: **TC-H 106**

产品别名: **Pimelic Diphenylamide 106; RGFA-8; Histone Deacetylase Inhibitor VII**

生物活性:				
Description	Pimelic Diphenylamide 106 is a slow, tight-binding inhibitor of class I HDAC (HDAC 1, 2, and 3, with IC50 values of 150 nM , 760nM, and 370 nM, respectively), demonstrating no activity against class II HDACs. IC50 value: 150 nM (HDAC1), 370 nM (HDAC3), 760nM(HDAC2) Target: HDAC in vitro: Pimelic Diphenylamide 106 has preference toward HDAC3 with Ki of 14 nM, 15 times lower than the Ki for HDAC1. Pimelic Diphenylamide 106 exhibits weaker inhibitory activities against HDAC 8 with IC50 of 5 µM after a 3-h preincubation with HDAC8.			
IC <sub>50</sub> & Target	HDAC1	HDAC3	HDAC2	HDAC8
	150 nM (IC <sub>50</sub> )	370 nM (IC <sub>50</sub> )	760 nM (IC <sub>50</sub> )	5000 nM (IC <sub>50</sub> )
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : ≥ 25 mg/mL (73.65 mM)</b>  * "≥" means soluble, but saturation unknown.			
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	
		<b>Concentration</b>		
			<b>1 mg</b>	<b>5 mg</b>
				<b>10 mg</b>
		1 mM	2.9461 mL	14.7306 mL
		5 mM	0.5892 mL	2.9461 mL
		10 mM	0.2946 mL	1.4731 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]. Chou CJ, et al. Pimelic diphenylamide 106 is a slow, tight-binding inhibitor of class I histone deacetylases. J Biol Chem. 2008 Dec 19;283(51):35402-35409. [2]. Xu C, et al. Chemical probes identify a role for histone deacetylase 3 in Friedreich's ataxia gene silencing. Chem Biol. 2009 Sep 25;16(9):980-989.			