

产品名称: PD 151746

产品别名: PD 151746

生物活性:					
Description	PD151746 is a calpain inhibitor, shows a 20-fold selectivity for u-calpain ($K_i = 0.26 \pm 0.03 \mu\text{M}$) over m-calpain ($K_i = 5.33 \pm 0.77 \mu\text{M}$). IC50 value: $0.26 \pm 0.03 \mu\text{M}$ (K_i , for μ -calpain), $5.33 \pm 0.77 \mu\text{M}$ (K_i , for m-calpain) [1] Target: calpain in vitro: The μ -calpain inhibitor PD 151746 decreases oxLDL-induced cytotoxicity. [2]				
Solvent&Solubility	In Vitro: DMSO : $\geq 37 \text{ mg/mL}$ (155.95 mM) * "≥" means soluble, but saturation unknown.				
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing	1 mM	4.2150 mL	21.0748 mL	42.1496 mL
	Stock Solutions	5 mM	0.8430 mL	4.2150 mL	8.4299 mL
		10 mM	0.4215 mL	2.1075 mL	4.2150 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。				
References	[1]. Wang KK, et al. <u>An alpha-mercaptoacrylic acid derivative is a selective nonpeptide cell-permeable calpain inhibitor and is neuroprotective.</u> Proc Natl Acad Sci U S A. 1996 Jun 25;93(13):6687-92. [2]. P?rn-Ares MI, et al. <u>Oxidized low-density lipoprotein induces calpain-dependent cell death and ubiquitination of caspase 3 in HMEC-1 endothelial cells.</u> Biochem J. 2003 Sep 1;374(Pt 2):403-11.				
实验参考:					
Cell Assay	HMEC-1 cells cultured in 60-mm-diameter culture dishes were left untreated or were exposed to 200 $\mu\text{g/ml}$ oxLDL for 20 h or to 200 nM staurosporine (STS) for 4 h. Along with oxLDL, some cells were co-treated with PD 151746 (20 μM) or BAF (50 μM). Thereafter, the cells were harvested and processed for Western blotting as described in the Experimental section. The PVDF membrane was probed with an anti- α -fodrin mAb. The absorbance (A) of the 150 and 120 kDa bands was scanned, and the ratio of the two values (A 150/A 120) is indicated below relevant samples. The illustrated blot is representative of five separate experiments[2].				
References	[1]. Wang KK, et al. <u>An alpha-mercaptoacrylic acid derivative is a selective nonpeptide cell-permeable calpain inhibitor and is neuroprotective.</u> Proc Natl Acad Sci U S A. 1996 Jun 25;93(13):6687-92. [2]. P?rn-Ares MI, et al. <u>Oxidized low-density lipoprotein induces calpain-dependent cell death and ubiquitination of caspase 3 in HMEC-1 endothelial cells.</u> Biochem J. 2003 Sep 1;374(Pt 2):403-11.				