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产品名称: **kb NB 142-70**
产品别名: **kb NB 142-70**

生物活性:					
Description	kb NB 142-70 is a potent PKD inhibitor, with IC50s of 28.3, 58.7 and 53.2 nM for PKD1, PKD2, and PKD3, respectively. kb NB 142-70 also has antitumor activity.				
IC50 & Target	PKD1	PKD3	PKD2		
	28.3 nM (IC50)	53.2 nM (IC50)	58.7 nM (IC50)		
In Vitro	kb NB 142-70 is a potent PKD inhibitor, with IC50s of 28.3, 58.7 and 53.2 nM for PKD1, PKD2, and PKD3, respectively. kb NB 142-70 also inhibits Ser916 phosphorylation of PKD1 (IC50, 2.2 ± 0.6 μM) in LNCaP cells. Moreover, kb NB 142-70 is cytotoxic against PC3 cells with an EC50 of 8.025 μM ^[1] . kb NB 142-70 (0-5 μM) concentration-dependently prevents ANG II-induced phosphorylation of HDAC4 at Ser246 and Ser632, HDAC5 at Ser259 and Ser498, and HDAC7 at Ser155 in IEC-18 cells. In addition, kb NB 142-70 (3.5 μM) also suppresses HDAC4, HDAC5, and HDAC7 phosphorylation in IEC-18 cells stimulated with ANG II for 0-240 min or with vasopressin, lysophosphatidic acid (LPA), or phorbol 12,13-dibutyrate (PDBu) ^[2] .				
Solvent&Solubility	In Vitro: DMSO : ≥ 33 mg/mL (131.31 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	<div>SolventMassConcentration</div>	1 mg	5 mg	10 mg
		1 mM	3.9790 mL	19.8950 mL	39.7899 mL
		5 mM	0.7958 mL	3.9790 mL	7.9580 mL
		10 mM	0.3979 mL	1.9895 mL	3.9790 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]. Lavalie CR, et al. Novel protein kinase D inhibitors cause potent arrest in prostate cancer cell growth and motility. BMC Chem Biol. 2010 May 5;10:5. [2]. James Sinnett-Smith, et al. Protein kinase D1 mediates class IIa histone deacetylase phosphorylation and nuclear extrusion in intestinal epithelial cells: role in mitogenic signaling. Am J Physiol Cell Physiol. 2014 May 15; 306(10): C961-C971.				
实验参考:					
Cell Assay	Briefly, PC3 cells are treated with kb NB 142-70 at 10 μM concentration for 48 h, and then fixed in 70% ice-cold ethanol overnight and labeled with propidium iodide. The labeled cells are analyzed using a FACScan Benchtop Cytometer ^[1] .				
	[1]. Lavalie CR, et al. Novel protein kinase D inhibitors cause potent arrest in prostate cancer cell growth and motility. BMC Chem Biol. 2010 May 5;10:5.				



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