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产品名称: **1-Naphthyl PP1 (hydrochloride)**

产品别名: **1-NA-PP 1 hydrochloride**

生物活性:					
Description	1-Naphthyl PP1 hydrochloride is a selective inhibitor of src family kinases v-Src and c-Fyn as well as the tyrosine kinase c-Abl (IC50 values are 1.0, 0.6, 0.6, 18 and 22 μM for v-Src, c-Fyn, c-Abl, CDK2 and CAMK II respectively). IC50 Value:1.0 uM (v-Src); 0.6 uM (c-Fyn); 18 uM (c-Abl) [1] Target: Src Family kinase 1-Naphthyl PP1 hydrochloride (1-NA-PP1) was considerably more potent and showed distinct substituent effects at the pyrazolopyrimidine core. 1-NA-PP1 was cell-active, and potently blocked prostate cancer cell proliferation by inducing G2/M arrest. Overexpression of PKD1 or PKD3 almost completely reversed the growth arrest and the inhibition of tumor cell invasion caused by 1-NA-PP1, indicating that its anti-proliferative and anti-invasive activities were mediated through the inhibition of PKD. Interestingly, a 12-fold increase in sensitivity to 1-NA-PP1 could be achieved by engineering a gatekeeper mutation in the active site of PKD1, suggesting that 1-NA-PP1 could be paired with the analog-sensitive PKD1(M659G) for dissecting PKD-specific functions and signaling pathways in various biological systems [2].				
Solvent&Solubility	In Vitro: DMSO : ≥ 73 mg/mL (206.30 mM) * "≥" means soluble, but saturation unknown.				
		SolventMassConcentration	1 mg	5 mg	10 mg
	Preparing	1 mM	2.8261 mL	14.1303 mL	28.2606 mL
	Stock Solutions	5 mM	0.5652 mL	2.8261 mL	5.6521 mL
		10 mM	0.2826 mL	1.4130 mL	2.8261 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]. Tandon M, et al. New pyrazolopyrimidine inhibitors of protein kinase d as potent anticancer agents for prostate cancer cells. PLoS One. 2013 Sep 23;8(9):e75601. [2]. Bishop AC, et al. A chemical switch for inhibitor-sensitive alleles of any protein kinase. Nature. 2000 Sep 21;407(6802):395-401.				