



上海源叶生物科技有限公司  
Shanghai yuanye Bio-Technology Co., Ltd  
电话: 021-61312973 传真: 021-55068248  
网址: [www.shyuanye.com](http://www.shyuanye.com)  
邮箱: [shyysw@sina.com](mailto:shyysw@sina.com)

产品名称: **TC-DAPK 6**  
产品别名: **TC-DAPK 6**

生物活性:					
Description	TC-DAPK 6 is a potent, ATP-competitive, and highly selective DAPK inhibitor (IC50=69 and 225 nM against DAPK1 and DAPK3, respectively, with 10 μM ATP).				
IC50 & Target	IC50: 69 nM (DAPK1), 225 nM (DAPK3)[1]				
In Vitro	TC-DAPK 6 is found to be the most potent Death-associated protein kinase (DAPK) inhibitor with enzyme selectivity. When assayed with 10 μM ATP, the IC50 values for DAPK1 and DAPK3 are 69 and 225 nM, respectively. TC-DAPK 6 also inhibits p70S6K (1 μM < IC50< 10 μM)[1].				
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : 18.67 mg/mL (67.57 mM; Need ultrasonic and warming)</b> <b>H2O : &lt; 0.1 mg/mL (insoluble)</b>				
	<div>Preparing Stock Solutions</div>	<div>Solvent / Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	3.6194 mL	18.0969 mL	36.1939 mL
		5 mM	0.7239 mL	3.6194 mL	7.2388 mL
		10 mM	0.3619 mL	1.8097 mL	3.6194 mL
	<b>*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。</b> <b>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。</b> <b>In Vivo:</b> <b>请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂:</b> <b>——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶。</b> <b>1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</b> <b>Solubility: 2 mg/mL (7.24 mM); Precipitated solution; Need ultrasonic</b> <b>此方案可获得 2 mg/mL (7.24 mM)</b> <b>以 1 mL 工作液为例, 取 100 μL 20.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中, 混合均匀; 向上述体系中加入 50 μL Tween-80, 混合均匀; 然后继续加入 450 μL 生理盐水定容至 1 mL。</b> <b>2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline)</b> <b>Solubility: 2 mg/mL (7.24 mM); Suspended solution; Need ultrasonic</b> <b>此方案可获得 2 mg/mL (7.24 mM)的均匀悬浊液, 悬浊液可用于口服和腹腔注射。</b> <b>以 1 mL 工作液为例, 取 100 μL 20.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。</b>				



上海源叶生物科技有限公司  
Shanghai yuanye Bio-Technology Co., Ltd  
电话: 021-61312973 传真: 021-55068248  
网址: [www.shyuanye.com](http://www.shyuanye.com)  
邮箱: [shyysw@sina.com](mailto:shyysw@sina.com)

<b>References</b>	[1]. Okamoto M, et al. Identification of death-associated protein kinases inhibitors using structure-based virtual screening. J Med Chem. 2009 Nov 26;52(22):7323-7.
<b>实验参考:</b>	
<b>Kinase Assay</b>	Kinase assay is performed using the Z'-LYTE kinase assay kit Ser/Thr 13 peptide. The standard reaction for compound screening contained 1 mM peptide substrate, 10 mM ATP, 50 mM HEPES (pH 7.4), 10 mM MgCl <sub>2</sub> , 0.01% Brij-35, and 0.5% DMSO. Human recombinant DAPK1 is used at a final concentration of 2.6 µg/mL, and recombinant DAPK3 is used at a final concentration 1.5 mg/mL. To test the enzyme selectively of the inhibitors (e.g., TC-DAPK 6), ProfilerPro kits are used in the protocol[1].
<b>References</b>	[1]. Okamoto M, et al. Identification of death-associated protein kinases inhibitors using structure-based virtual screening. J Med Chem. 2009 Nov 26;52(22):7323-7.

源叶生物