

产品名称: **WIKI4**

产品别名: **WIKI4**

生物活性:

Description	WIKI4 is a potent tankyrase inhibitor with an IC ₅₀ of 26 nM for TNKS2. WIKI4 potently inhibits Wnt/β-catenin signaling and that its half-maximal response dose is 75 nM. WIKI4 mediates its effects on Wnt/β-catenin signaling by inhibiting the enzymatic activity of TNKS2[1][2]. WIKI4 is cytotoxic to SCLC cells with an IC50 value of 0.02 μM[3].				
IC ₅₀ & Target [2]	TNKS2				
	26 nM (IC ₅₀)				
In Vitro	WIKI4 (100 nM, 1 μM; 6 days; DLD1 cells) inhibits growth of DLD1 cells relative to DMSO controls in media containing low serum. WIKI4 inhibits expression of β-catenin target genes and cellular responses to Wnt/β-catenin signaling[1].				
	WIKI4 (1 μM; 2 hours, 4 hours, 6 hours, or 24 hours; DLD1 cells) significantly increases the steady-state abundance of AXIN1 and AXIN2[1].				
	Cell Viability Assay[1]				
	Cell Line:	DLD1 cells			
	Concentration:	100 nM, 1 μM			
	Incubation Time:	6 days			
	Result:	Inhibited growth of DLD1 cells.			
	Western Blot Analysis[1]				
	Cell Line:	DLD1 cells			
	Concentration:	1 μM			
	Incubation Time:	2 hours,4 hours,6 hours, or 24 hours			
	Result:	Significantly increased the steady-state abundance of AXIN1 and AXIN2.			
Solvent&Solubility	In Vitro:				
	DMSO : 6.8 mg/mL (13.04 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	<div>Solvent / Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	1.9172 mL	9.5861 mL	19.1721 mL
		5 mM	0.3834 mL	1.9172 mL	3.8344 mL
		10 mM	0.1917 mL	0.9586 mL	1.9172 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	<p>[1]. James RG, et al. WIKI4, a novel inhibitor of tankyrase and Wnt/β-catenin signaling. PLoS One. 2012;7(12):e50457.</p> <p>[2]. Haikarainen T, et al. Structural basis and selectivity of tankyrase inhibition by a Wnt signaling inhibitor WIKI4. PLoS One. 2013 Jun 6;8(6):e65404.</p> <p>[3]. Sadava D, et al. The effect of brassinolide, a plant steroid hormone, on drug resistant small-cell lung carcinoma cells. Biochem Biophys Res Commun. 2017 Nov 4;493(1):783-787.</p>				