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产品名称: Ibrutinib-biotin
产品别名: 依鲁替尼-生物素

生物活性:				
Description	Ibrutinib-biotin is a probe that consists of Ibrutinib linked to biotin via a long chain linker, extracted from patent WO2014059368A1 Compound 1-5, has an IC ₅₀ of 0.755-1.02 nM for BTK.			
IC ₅₀ & Target	IC ₅₀ : 0.755-1.02 nM (BTK), 1.71-2.29 nM (TEC), 3.66-4.27 nM (BLK), 4.42-5.57 nM (BMX), 5.99-6.92 nM (LCK), 33.8-36.3 nM (Src), 0.187-0.198 μM (ITK), 5.34-4.87 μM (JAK3)[1]			
In Vitro	Ibrutinib-biotin (Compound 1-5) is a probe that consists of Ibrutinib linked to biotin via a long chain linker. Ibrutinib is a TEC family kinase inhibitor. The TEC kinase family is composed of five members, TEC, BTK (Bruton's Tyrosine Kinase), ITK (interleukin-2-inducible T-cell kinase)/EMT/TSK, BMX and TXK/RLK. The TEC family kinases participate in phosphotyrosine-mediated and phospholipid-mediated signaling systems. Many TEC family proteins are abundantly expressed in hematopoietic tissues, and play important roles in the growth and differentiation processes of blood cells[1].			
Solvent&Solubility	In Vitro: DMSO : 50 mg/mL (45.56 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg
		1 mM	0.9113 mL	4.5563 mL
		5 mM	0.1823 mL	0.9113 mL
		10 mM	0.0911 mL	0.4556 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。			
	In Vivo: 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: ——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 1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (2.28 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (2.28 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 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。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.28 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (2.28 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理			



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	盐水水溶液中，混合均匀。 3.请依序添加每种溶剂： 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (2.28 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (2.28 mM, 饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。
References	[1]. Betty Y. CHANG, et al. Companion diagnostics for tec family kinase inhibitor therapy. WO 2014059368 A1.
实验参考：	
Kinase Assay	In this study, assay formats are tested for sensitivity, specificity, range, and to determine most suitable anti BTK Antibody. An aliquot of DOHH2 cell lysate (1 mg/mL) is inhibited with 1 μ M Ibrutinib then labeled with probe (1 μ M). Negative controls: Untreated DOHH2 and Jurkat cell lysates (1 mg/mL) are labeled with probe (1 μ M) and Untreated DOHH2 cell lysate. Standard Streptavidin plate (5-pack); Read Buffer T (50 mL), SULFO TAG Goat Anti-mouse (50 μ g); SULFO TAG Goat Anti-rabbit (50 μ g); SULFO TAG streptavidin (50 ug); MSD Standard Plates; MSD Blocker A; Protease inhibitor cocktail; Positive Control lysates from BTK expressing cell line (DOHH2); Negative Control lysates; Ibrutinib (PCI); probe compound 1-5 (biotinylated probe). [1]
References	[1]. Betty Y. CHANG, et al. Companion diagnostics for tec family kinase inhibitor therapy. WO 2014059368 A1.

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