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产品名称: **Triazolo-pyrimidine derivative**  
产品别名: **CPI-444; V81444; ciforadenant**

生物活性:				
Description	CPI-444 is a potent, oral and selective A2A receptor (A2AR) antagonist, which induces antitumor responses.			
IC <sub>50</sub> & Target	Adenosine A2A receptor[1]			
In Vitro	CPI-444 is a potent, oral, selective A2AR antagonist. CD8 <sup>+</sup> T cell depletion abrogates the efficacy of CPI-444 treatment as a single agent as well as in combination with anti-PD-L1, demonstrating a role for CD8 <sup>+</sup> T cells in mediating primary and secondary immune responses. Anti-tumor efficacy of CPI-444±anti-PD-L1 is associated with increased CD8 <sup>+</sup> cell infiltration and activation in MC38 tumor tissues, and a corresponding rise in PD-1 expression on CD8 <sup>+</sup> T cells in the spleen. Additionally, levels of immune checkpoints are modulated by treatment with CPI-444, including GITR, OX40, and LAG3 on tumor infiltrating lymphocytes and circulating T cells, suggesting a broad role for adenosine mediated immunosuppression <sup>[1]</sup> .			
In Vivo	Daily treatment of the syngeneic mouse model MC38 with CPI-444 (1, 10, 100 mg/kg) leads to dose-dependent inhibition of tumor growth, leading to tumor elimination in ~30% of treated mice. Combining CPI-444 (100 mg/kg, qd, 14 days) with anti-PD-L1 (200 µg, 3qw, 4 doses) treatment in MC38 models synergistically inhibits tumor growth and eliminates tumors in 90% of treated mice. When cured mice are later re-challenged with MC38 cells, tumor growth is rejected in 100% of challenged mice, indicating that CPI-444 induces systemic anti-tumor immune memory <sup>[1]</sup> .			
Solvent&Solubility	<b>In Vitro:</b> DMSO : 67.5 mg/mL (165.67 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Concentration	Mass Concentration	
		1 mM	1 mg	5 mg
		5 mM	1 mg	5 mg
		10 mM	1 mg	5 mg
	*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。 <b>In Vivo:</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: ——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: ≥ 2.25 mg/mL (5.52 mM); Clear solution 此方案可获得 ≥ 2.25 mg/mL (5.52 mM, 饱和度未知) 的澄清溶液。			



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	<p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 22.5 mg/mL 的澄清 DMSO 储备液加到 400 <math>\mu</math>L PEG300 中, 混合均匀向上述体系中加入 50 <math>\mu</math>L Tween-80, 混合均匀; 然后继续加入 450 <math>\mu</math>L 生理盐水定容至 1 mL。</p> <p>2. 请依序添加每种溶剂: 10% DMSO <math>\rightarrow</math> 90% (20% SBE-<math>\beta</math>-CD in saline)</p> <p>Solubility: <math>\geq</math> 2.25 mg/mL (5.52 mM); Clear solution</p> <p>此方案可获得 <math>\geq</math> 2.25 mg/mL (5.52 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 22.5 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 20% 的 SBE-<math>\beta</math>-CD 生理盐水水溶液中, 混合均匀</p>
References	<p>[1]. Stephen Willingham, et al. Abstract PR04: CPI-444: A potent and selective inhibitor of A2AR induces antitumor responses alone and in combination with anti-PD-L1 in preclinical and clinical studies. Cancer Immunology Research. September 25-28, 2016.</p>

源叶生物