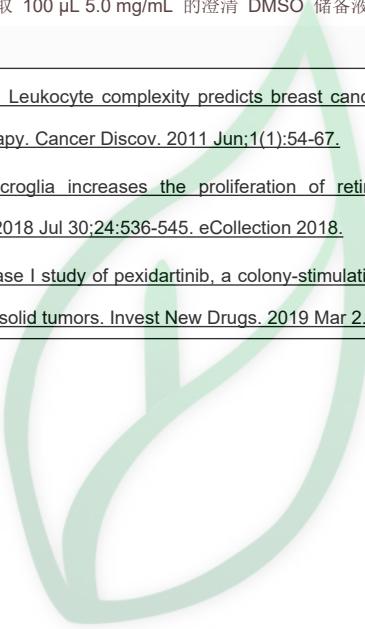


## 产品名称: **Pexidartinib**

产品别名: **Pexidartinib(PLX3397)**

生物活性:																				
<b>Description</b>	Pexidartinib (PLX-3397) is a potent, orally active, selective, and ATP-competitive colony stimulating factor 1 receptor (CSF1R or M-CSFR) and c-Kit inhibitor, with IC <sub>50</sub> s of 20 and 10 nM, respectively. Pexidartinib (PLX-3397) exhibits 10- to 100-fold selectivity for c-Kit and CSF1R over other related kinases. Anti-tumor activity[1].																			
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 10 nM (c-Kit), 20 nM (cFMS), 160 nM (FLT3), 350 nM (KDR), 860 nM (LCK), 880 nM (FLT1), 890 nM (NTRK3)[1]																			
<b>In Vitro</b>	Pexidartinib (PLX3397; 0.25, 1 mg/kg, twice daily for 8 days) inhibits the proliferation of microglia and BrdU-positive cells in neonatal mice[2]. Pexidartinib (1 mg/kg, twice daily for 8 day) shows no obvious effect on the cleaved caspase-3-positive cells in mice[2].																			
<b>In Vivo</b>	Pexidartinib (PLX3397; 0.25, 1 mg/kg, twice daily for 8 days) inhibits the proliferation of microglia and BrdU-positive cells in neonatal mice[2]. Pexidartinib (1 mg/kg, twice daily for 8 day) shows no obvious effect on the cleaved caspase-3-positive cells in mice[2].																			
	<p><b>In Vitro:</b></p> <p>DMSO : 5 mg/mL (11.97 mM; Need ultrasonic)</p> <p>H<sub>2</sub>O : &lt; 0.1 mg/mL (insoluble)</p> <table border="1"><thead><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent</th><th>Mass</th><th rowspan="2">1 mg</th><th rowspan="2">5 mg</th><th rowspan="2">10 mg</th></tr><tr><th>Concentration</th></tr></thead><tbody><tr><td>1 mM</td><td>2.3934 mL</td><td>11.9672 mL</td><td>23.9343 mL</td></tr><tr><td>5 mM</td><td>0.4787 mL</td><td>2.3934 mL</td><td>4.7869 mL</td></tr><tr><td>10 mM</td><td>0.2393 mL</td><td>1.1967 mL</td><td>2.3934 mL</td></tr></tbody></table>	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg	Concentration	1 mM	2.3934 mL	11.9672 mL	23.9343 mL	5 mM	0.4787 mL	2.3934 mL	4.7869 mL	10 mM	0.2393 mL	1.1967 mL	2.3934 mL
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<b>Solvent&amp;Solubility</b>	<p>*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。</p> <p>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。</p> <p><b>In Vivo:</b></p> <p>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 <b>In Vitro</b> 方式配制澄清的储备液, 再依次添加助溶剂:</p> <p>——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</p> <p>1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p> <p>Solubility: ≥ 0.5 mg/mL (1.20 mM); Clear solution</p> <p>此方案可获得 ≥ 0.5 mg/mL (1.20 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 μL 5.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中, 混合均匀;</p>																			

	<p>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 → 90% (20% SBE-<math>\beta</math>-CD in saline)</p> <p><b>Solubility:</b> <math>\geq 0.5 \text{ mg/mL}</math> (1.20 mM); Clear solution</p> <p>此方案可获得 <math>\geq 0.5 \text{ mg/mL}</math> (1.20 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 5.0 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> <p>3. 请依序添加每种溶剂： 10% DMSO → 90% corn oil</p> <p><b>Solubility:</b> <math>\geq 0.5 \text{ mg/mL}</math> (1.20 mM); Clear solution</p> <p>此方案可获得 <math>\geq 0.5 \text{ mg/mL}</math> (1.20 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。</p> <p>以 1 mL 工作液为例，取 100 <math>\mu</math>L 5.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中，混合均匀。</p>
<b>References</b>	<p>[1]. DeNardo DG, et al. Leukocyte complexity predicts breast cancer survival and functionally regulates response to chemotherapy. <i>Cancer Discov.</i> 2011 Jun;1(1):54-67.</p> <p>[2]. Kuse Y, et al. Microglia increases the proliferation of retinal precursor cells during postnatal development. <i>Mol Vis.</i> 2018 Jul 30;24:536-545. eCollection 2018.</p> <p>[3]. Lee JH, et al. A phase I study of pexidartinib, a colony-stimulating factor 1 receptor inhibitor, in Asian patients with advanced solid tumors. <i>Invest New Drugs.</i> 2019 Mar 2.</p>



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