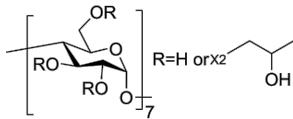


# (2-Hydroxypropyl)- $\beta$ -cyclodextrin

货号: B26662

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## 产品信息

生物活性	(2-Hydroxypropyl)- $\beta$ -cyclodextrin is a widely used drug delivery vehicle to improve the stability and bioavailability.
CAS	128446-35-5
中文名称	羟丙基- $\beta$ -环糊精
分子量	
体外研究	<p>Cell treatment with (2-Hydroxypropyl)-<math>\beta</math>-cyclodextrin results in the activation of the transcription factor E2A, a master regulator of lysosomal function and autophagy, and in enhancement of the cellular autophagic clearance capacity. (2-Hydroxypropyl)-<math>\beta</math>-cyclodextrin treatment reduces intracellular cholesterol resulting in significant leukemic cell growth inhibition through G2/M cell-cycle arrest and apoptosis. The IC<sub>50</sub> values for (2-Hydroxypropyl)-<math>\beta</math>-cyclodextrin after 72 hours exposure are in the range of 3.86–10.09 mM. (2-Hydroxypropyl)-<math>\beta</math>-cyclodextrin also shows anticancer effects against CML cells expressing a T315I BCR-ABL mutation (that confers resistance to most ABL tyrosine kinase inhibitors), and hypoxia-adapted CML cells that have characteristics of leukemic stem cells. In addition, colony forming ability of human primary AML and CML cells is inhibited by (2-Hydroxypropyl)-<math>\beta</math>-cyclodextrin.</p> <p><b>The accuracy of these methods have not been independently confirmed. They are for reference only.</b></p>
体内研究	
形式	Solid
运输条件	Room temperature in continental US; may vary elsewhere.
保存条件	

溶解性	<p><b>In Vitro:</b></p> <p><b>DMSO : 50 mg/mL</b> (Need ultrasonic)</p> <p><b>H<sub>2</sub>O : 50 mg/mL</b> (Need ultrasonic)</p> <p><b>In Vivo:</b></p> <p>请根据您的<a href="#">实验动物和给药方式</a>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> <ul style="list-style-type: none"> <li>● 1.</li> </ul> <p>请依序添加每种溶剂： Saline</p> <p>Solubility: 200 mg/mL (Infinity mM); Clear solution; Need ultrasonic</p> <ul style="list-style-type: none"> <li>● 2.</li> </ul> <p>请依序添加每种溶剂： PBS</p> <p>Solubility: 100 mg/mL (Infinity mM); Clear solution; Need ultrasonic and warming and heat to 60°C</p> <ul style="list-style-type: none"> <li>● 3.</li> </ul> <p>请依序添加每种溶剂： 10% DMSO 40% <a href="#">PEG300</a> 5% <a href="#">Tween-80</a> 45% saline</p> <p>Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution</p> <p>此方案可获得 ≥ 2.08 mg/mL (Infinity mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例，取 100 μL 20.8 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。</p> <p>将 0.9 g 氯化钠，完全溶解于 100 mL ddH<sub>2</sub>O 中，得到澄清透明的生理盐水溶液</p> <ul style="list-style-type: none"> <li>● 4.</li> </ul> <p>请依序添加每种溶剂： 10% DMSO 90% (20% <a href="#">SBE-β-CD</a> in saline)</p> <p>Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution</p> <p>此方案可获得 ≥ 2.08 mg/mL (Infinity mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例，取 100 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水溶液中，混合均匀。</p> <p>将 2 g 磺丁基醚 β-环糊精加入 5 mL 生理盐水中，再用生理盐水定容至 10 mL，完全溶解，澄清透明</p> <ul style="list-style-type: none"> <li>● 5.</li> </ul> <p>请依序添加每种溶剂： 10% DMSO 90% <a href="#">corn oil</a></p> <p>Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution</p> <p>此方案可获得 ≥ 2.08 mg/mL (Infinity 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 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。 *以上所有助溶剂都可在 MCE 网站选购。</p>
纯度	