



上海源叶生物科技有限公司  
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产品名称: **CB 300919**  
产品别名: **CB 300919**

| 生物活性:              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |           |           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|-----------|
| Description        | CB 300919 is a quinazoline-based antitumour agent with high activity in the CH1 human ovarian tumour xenograft. CB 300919 has a continuous exposure (96 h) growth inhibition IC50 value of 2 nM in human CH1 ovarian tumor xenograft[1].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |           |           |
| Solvent&Solubility | <b>In Vitro:</b><br><b>DMSO : <math>\geq 100</math> mg/mL (171.20 mM)</b><br><b>H<sub>2</sub>O : <math>&lt; 0.1</math> mg/mL (insoluble)</b><br><br>* " $\geq$ " means soluble, but saturation unknown.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |           |           |
|                    | Preparing<br>Stock Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Solvent<br>Concentration | Mass      |           |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | 1 mg      | 5 mg      |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | 10 mg     |           |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 mM                     | 1.7120 mL | 8.5600 mL |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 mM                     | 0.3424 mL | 1.7120 mL |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 mM                    | 0.1712 mL | 0.8560 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。<br>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><br>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:<br>——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<br>1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline<br>Solubility: $\geq 3$ mg/mL (5.14 mM); Clear solution<br>此方案可获得 $\geq 3$ mg/mL (5.14 mM, 饱和度未知) 的澄清溶液。<br>以 1 mL 工作液为例,取 100 $\mu$ L 30.0 mg/mL 的澄清 DMSO 储备液加到 400 $\mu$ L PEG300 中,混合均匀向上述体系中加入 50 $\mu$ L Tween-80,混合均匀;然后继续加入 450 $\mu$ L 生理盐水定容至 1 mL。<br><br>2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE- $\beta$ -CD in saline)<br>Solubility: 3 mg/mL (5.14 mM); Suspended solution; Need ultrasonic<br>此方案可获得 3 mg/mL (5.14 mM)的均匀悬浊液,悬浊液可用于口服和腹腔注射。<br>以 1 mL 工作液为例,取 100 $\mu$ L 30.0 mg/mL 的澄清 DMSO 储备液加到 900 $\mu$ L 20% 的 SBE- $\beta$ -CD 生理盐水水溶液中,混合均匀。<br><br>3.请依序添加每种溶剂: 10% DMSO →90% corn oil<br>Solubility: $\geq 3$ mg/mL (5.14 mM); Clear solution<br>此方案可获得 $\geq 3$ mg/mL (5.14 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 |                          |           |           |



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|            | 验。<br>以 1 mL 工作液为例, 取 100 $\mu$ L 30.0 mg/mL 的澄清 DMSO 储备液加到 900 $\mu$ L 玉米油中, 混合均匀。                                                                                                                                                                                                                                                                                                                                                                                               |
| References | <p>[1]. Lockman JW, et al. Analogues of 4-[(7-Bromo-2-methyl-4-oxo-3H-quinazolin-6-yl)methylprop-2-ynylamino]-N-(3-pyridylmethyl)benzamide (CB-30865) as Potent Inhibitors of Nicotinamide Phosphoribosyltransferase (Nampt). J. Med. Chem., 2010, 53 (24), pp 8734-8746</p> <p>[2]. Bavetsias, V. et al. The Design and Synthesis of Water-Soluble Analogues of CB30865, a Quinazolin-4-one-Based Antitumor Agent. Journal of Medicinal Chemistry (2002), 45(17), 3692-3702.</p> |



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