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产品名称: 非诺洛芬钙二水合物  
产品别名: **Fenoprofen Calcium hydrate**

生物活性:					
Description	Fenoprofen Calcium hydrate is a nonsteroidal, anti-inflammatory antiarthritic agent. Target: Prostaglandin G/H synthase 1 Fenoprofen is a non-steroidal anti-inflammatory, antipyretic, analgesic agent advocated for use in rheumatoid arthritis, degenerative joint disease, ankylosing spondylitis and gout. Fenoprofen has a serum half-life of about 150 to 180 minutes and is at least 99% bound to plasma proteins. It is extensively metabolised after oral administration, the main metabolites being fenoprofen glucuronide and 4-hydroxy-fenoprofen glucuronide [1]. Fenoprofen calcium is revealed for relief of mild to moderate pain in adults and for relief of the signs and symptoms of rheumatoid arthritis and osteoarthritis. In patients with osteoarthritis, the anti-inflammatory and analgesic effects of fenoprofen calcium have been demonstrated by decrease in tenderness as a response to pressure and reduction in night pain, stiffness, swelling, and overall disease activity. These effects have also been demonstrated by attenuation of pain with motion and at rest and increased range of motion in involved joints [2].				
	<p><b>In Vitro:</b></p> <p><b>DMSO : ≥ 100 mg/mL (356.74 mM)</b></p> <p><b>H<sub>2</sub>O : 1 mg/mL (3.57 mM; Need ultrasonic)</b></p> <p><small>* "≥" means soluble, but saturation unknown.</small></p>				
Solvent&Solubility	Preparing	Solvent	Mass		
		Concentration			
	Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.5674 mL	17.8368 mL	35.6735 mL
		5 mM	0.7135 mL	3.5674 mL	7.1347 mL
	10 mM	0.3567 mL	1.7837 mL	3.5674 mL	
<p><small>*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。</small></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 In Vitro 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: ≥ 2.5 mg/mL (8.92 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (8.92 mM, 饱和度未知) 的澄清溶液。</p> <p>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。</p> <p>2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline)</p>					



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	<p>Solubility: <math>\geq 2.5</math> mg/mL (8.92 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (8.92 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 25.0 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 <math>\rightarrow</math> 90% corn oil</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (8.92 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (8.92 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 25.0 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>
References	<p>[1]. Takashima-Hirano M, et al. General method for the (11)C-labeling of 2-arylpropionic acids and their esters: construction of a PET tracer library for a study of biological events involved in COXs expression. Chemistry. 2010 Apr 12;16(14):4250-8.</p>

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