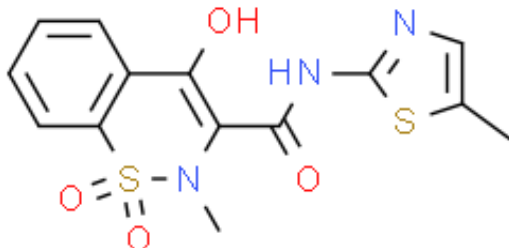


Product Data Sheet

Cas No.:	71125-38-7	Cat. No:	PC14125
Product Name:	Meloxicam (Mobic).		
Product synonym:	美洛昔康;4-羟-2-甲基-N-(5-甲基-2-噻唑)-2H-1,2-苯并噻唑-3-酰胺-1,1-二氧化物;美洛昔康钠;4-羟基-2-甲基-N-(5-甲基-2-噻唑基)-2H-L,2-苯并噻唑-3-羧酰胺1,1-二氧化物;美罗昔康;4-羟基-2-甲基-N-(5-甲基-2-噻唑)-2H-1,2-苯并噻唑-3-甲酰胺 1,1-二氧化物;4-羟基-2-甲基-N-(5-甲基-2-噻唑基)-2H-1;Meloxicam 美洛昔康;WAKO135-15131美洛昔康标准品;美洛昔康 EP标准品;美洛昔康 USP标准品;美洛昔康 标准品;美洛昔康（meloxicam）杂质对照品;美洛昔康,BP2002;美洛昔康,企标;美洛昔康原药;美索巴莫;4-羟基-2-甲基-N-(5-甲基-1,3-噻唑-2-基)-2H-1,2-苯并噻唑-3-羧酸乙酯1,1-二氧化物;4-羟基-2-甲基-N-(5-甲基-2-噻唑基)-2H-1,2-苯并噻唑-3-甲酰胺-1,1-二氧化物;4-羟基-2-甲基-N-(5-甲基-2-噻唑基)-2H-1,2-苯并噻唑-3-甲酰胺 1,1-二氧化物		
Chemical name:	Meloxicam (Mobic).		
MF:	C14H13N3O4S2	FW:	351.4007
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	S1(C2=C([H])C([H])=C([H])C([H])=C2C(=C(C(N([H])C2=NC([H])=C(C([H])([H])([H])S2)=O)N1C([H])([H])([H])O[H])(=O)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

非甾体抗炎药，Meloxicam 是一种非甾体类抗炎剂，能够有效抑制 COX 的活性，对 COX-2 和 COX-1 的 IC50 值分别为 0.49 μM 和 36.6 μM。

生物活性	Meloxicam is a non-steroidal antiinflammatory agent, inhibits COX activity, with IC ₅₀ s of 0.49 μM and 36.6 μM for COX-2 and COX-1, respectively.		
IC50 & Target[1][2]	COX-2 0.49 μM (IC ₅₀)	COX-1 36.6 μM (IC ₅₀)	MMP-2

体外研究(In Vitro)	Meloxicam (Compound 5) is a non-steroidal antiinflammatory agent, inhibits COX activity, with IC₅₀s of 0.49 μM and 36.6 μM for COX-2 and COX-1, respectively. Meloxicam inhibits COX tumor cells, but shows no cytotoxicity on CF41.Mg or MDCK cells at 0.25-25 μg/mL. Furthermore, Meloxicam in combination with doxorubicin, has no synergistic effect on CF41.Mg cells. Meloxicam (0.25 μg/mL) decreases CF41.Mg cell migration and invasion, induces decrease in MMP-2 expression, and increases β-catenin phosphorylation in CF41.Mg cells, but does not affect the CF41.Mg cell apoptosis. Medlife has not independently confirmed the accuracy of these methods. They are for reference only.												
体内研究(In Vivo)	Meloxicam (10 mg/kg) alone or in combination with rutin significantly decreases paw liking time on 1st day by 55% and 49% compared with the formalin-treated group, respectively, however the combination reduces time non-significantly on 3rd day in mice. Meloxicam alone or in combination with rutin also decreases relative liver weights, reduces MDA contents, induces liver SOD activities, hampers IL-1β content, and significantly reduces the number of positive caspase-3 immunoreactive cells in mice. Medlife has not independently confirmed the accuracy of these methods. They are for reference only.												
包装储存	<table><tr><td>Powder</td><td>-20°C</td><td>3 years</td></tr><tr><td></td><td>4°C</td><td>2 years</td></tr><tr><td>In solvent</td><td>-80°C</td><td>6 months</td></tr><tr><td></td><td>-20°C</td><td>1 month</td></tr></table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											

体外研究:

DMSO : 50 mg/mL (142.29 mM; Need ultrasonic)

H₂O : 0.67 mg/mL (1.91 mM; Need ultrasonic)

配制储备溶液	溶剂体积 浓度	质量 1 mg	5 mg	10 mg
	1 mM	2.8458 mL	14.2288 mL	28.4576 mL
	5 mM	0.5692 mL	2.8458 mL	5.6915 mL
	10 mM	0.2846 mL	1.4229 mL	2.8458 mL

* 产品不同，其溶解度不同。建议根据产品选择合适的溶剂配制储备溶液；配成溶液后，建议分装保存，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，建议在 6 个月内使用，-20°C 储存时，建议在 1 个月内使用。

体内研究:

建议根据您的[实验动物](#)和[给药方式](#)选择适当的溶解方案。以下溶解方案都建议先按照 **体外研究** 方式配制澄清的储备液，再依次添加助溶剂：

溶解度数据

——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. 建议依照次序添加每种溶剂：10% DMSO 90% [corn oil](#)

Solubility: ≥ 2.5 mg/mL (7.11 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (7.11 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。

以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。

2. 建议依照次序添加每种溶剂：10% DMSO 40% [PEG300](#) 5% [Tween-80](#) 45% saline

Solubility: ≥ 1 mg/mL (2.85 mM); Clear solution

此方案可获得 ≥ 1 mg/mL (2.85 mM，饱和度未知) 的澄清溶液。

以 1 mL 工作液为例，取 100 μL 10.0 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。

将 0.9 g 氯化钠，完全溶解于 100 mL ddH₂O 中，得到澄清透明的生理盐水溶液

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