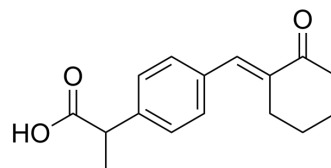


## Pelubiprofen

Cat. No.:	HY-12383	
CAS No.:	69956-77-0	
Molecular Formula:	C <sub>16</sub> H <sub>18</sub> O <sub>3</sub>	
Molecular Weight:	258.31	
Target:	COX	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (387.13 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	3.8713 mL	19.3566 mL
	5 mM	0.7743 mL	3.8713 mL	
	10 mM	0.3871 mL	1.9357 mL	3.8713 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

Description	Pelubiprofen, an orally active and non-steroidal anti-inflammatory drug, is a member of the 2-arylpropionic acid family and has relatively selective effects on COX-2 activity. Pelubiprofen inhibits COX activity and the transforming growth factor-β activated kinase 1-IκB kinase β-NF-κB pathway, and has significant anti-inflammatory and analgesic effects <sup>[1]</sup> .
IC <sub>50</sub> & Target	COX-2

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## REFERENCES

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[1]. Choi IA, Baek HJ, et al. Comparison of the efficacy and safety profiles of a pelubiprofen versus celecoxib in patients with rheumatoid arthritis: a 6-week, multicenter, randomized, double-blind, phase III, non-inferiority clinical trial. BMC Musculoskelet Disord. 2014 Nov 18;15:375.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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