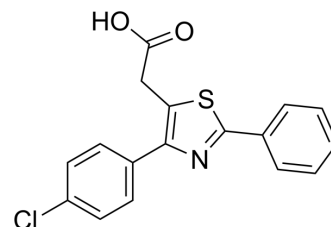


## Fentiazac

<b>Cat. No.:</b>	HY-118752		
<b>CAS No.:</b>	18046-21-4		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>12</sub> ClNO <sub>2</sub> S		
<b>Molecular Weight:</b>	329.8		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (303.21 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.0321 mL	15.1607 mL	30.3214 mL
		5 mM	0.6064 mL	3.0321 mL	6.0643 mL
10 mM		0.3032 mL	1.5161 mL	3.0321 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<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 (7.58 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 (7.58 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (7.58 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Fentiazac, alcanoic acid derivative, is an orally active non-steroidal anti-inflammatory agent, with analgesic, antipyretic and platelet anti-aggregation activity. Fentiazac can be used to research inflammatory diseases such as rheumatoid arthritis, osteoarthritis and tendinitis <sup>[1][2][3]</sup> .
<b>In Vivo</b>	Fentiazac is well tolerated after repeated oral administration in rats, monkeys and dogs; and no significant modifications in the heart and bone marrow function, as well as blood chemistry <sup>[1]</sup> . Tolerance of Fentiazac in rat, monkey and dog <sup>[1]</sup> .

Species	Tolerant dosage	Tolerant administration day
Rat	0-50 mg/kg/day	90 days
Red pated monkey	40 mg/kg/day	90 days
	0-30 mg/kg/day	180 days
African green monkey	0-8 mg/kg/day	79 to 93 days
dog	16.6 mg/kg/day	180 days

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

- [1]. Emilio Marmo, et al. Experimental and clinical pharmacology of fentiazac, a new, non-steroidal anti-inflammatory agent. Current Medical Research and Opinion. Volume 6, 1979 - Issue sup2.
- [2]. Gabor Katona, et al. Efficacy and tolerability of fentiazac in rheumatoid arthritis: Double-blind study versus indomethacin. Current Medical Research and Opinion. Volume 6, 1979 - Issue sup2.
- [3]. Famaey JP, Gaci O, Ginsberg F. Fentiazac in the treatment of osteoarthritis and tendinitis. Curr Med Res Opin. 1983;8(9):675-81.

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

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