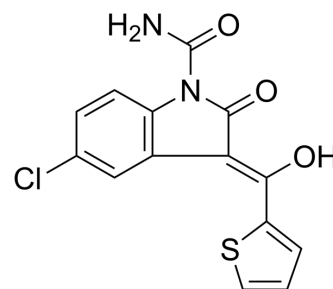


## Tenidap

<b>Cat. No.:</b>	HY-105028		
<b>CAS No.:</b>	120210-48-2		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>9</sub> ClN <sub>2</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	320.75		
<b>Target:</b>	COX		
<b>Pathway:</b>	Immunology/Inflammation		
<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 : 25 mg/mL (77.94 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	3.1177 mL	15.5885 mL	31.1769 mL
	<b>5 mM</b>	0.6235 mL	3.1177 mL	6.2354 mL
	<b>10 mM</b>	0.3118 mL	1.5588 mL	3.1177 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.79 mM); Suspended solution; Need ultrasonic			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Tenidap, a non-steroidal anti-inflammatory drug, is a selective COX-1 inhibitor, with IC <sub>50</sub> values of 0.03 μM and 1.2 μM for COX-1 and COX-2, respectively. Tenidap has anti-inflammatory and antirheumatic properties <sup>[1][2]</sup> . Tenidap is also a specific SLC26A3 inhibitor <sup>[3]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	COX-1 0.03 μM (IC <sub>50</sub> )	COX-2 1.2 μM (IC <sub>50</sub> )

### REFERENCES

[1]. Kirchner T, et al. Evaluation of the antiinflammatory activity of a dual cyclooxygenase-2 selective/5-lipoxygenase inhibitor, RWJ 63556, in a canine model of inflammation. J Pharmacol Exp Ther. 1997 Aug;282(2):1094-101.

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[2]. Blackburn WD Jr, et al. Tenidap in rheumatoid arthritis. A 24-week double-blind comparison with hydroxychloroquine-plus-piroxicam, and piroxicam alone. *Arthritis Rheum.* 1995 Oct;38(10):1447-56.

[3]. Julio C Chávez, et al. Participation of the Cl<sup>-</sup>/HCO<sub>3</sub><sup>-</sup>- exchangers SLC26A3 and SLC26A6, the Cl<sup>-</sup> channel CFTR, and the regulatory factor SLC9A3R1 in mouse sperm capacitation. *Biol Reprod.* 2012 Jan 19;86(1):1-14.

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

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