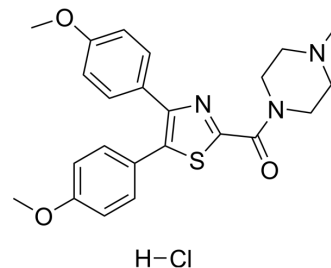


## FR122047

Cat. No.:	HY-103386
CAS No.:	130717-51-0
Molecular Formula:	C <sub>23</sub> H <sub>26</sub> ClN <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	459.99
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (217.40 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.1740 mL	10.8698 mL	21.7396 mL
				5 mM	0.4348 mL	2.1740 mL	4.3479 mL
				10 mM	0.2174 mL	1.0870 mL	2.1740 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.43 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.43 mM); Clear solution; Need ultrasonic						

### BIOLOGICAL ACTIVITY

Description	FR122047 (hydrochloride) is a selective and oral active inhibitor of COX-1 with an IC <sub>50</sub> of 28 nM. FR122047 hydrochloride has antiplatelet, analgesic and anti-inflammatory effects in vivo <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	COX-1 28 nM (IC <sub>50</sub> )

### REFERENCES

- [1]. Dohi M, et al. The anti-platelet actions of FR122047, a novel cyclooxygenase inhibitor. *Eur J Pharmacol.* 1993 Oct 19;243(2):179-84.
- [2]. Ochi T, Motoyama Y, Goto T. The analgesic effect profile of FR122047, a selective cyclooxygenase-1 inhibitor, in chemical nociceptive models. *Eur J Pharmacol.* 2000 Mar

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10;391(1-2);49-54.

[3]. Ochi T, Goto T. Differential effect of FR122047, a selective cyclo-oxygenase-1 inhibitor, in rat chronic models of arthritis. Br J Pharmacol. 2002 Feb;135(3):782-8.

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

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