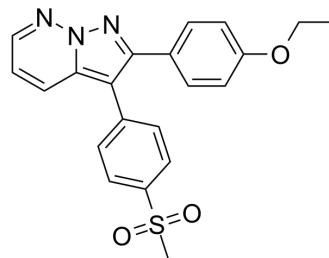


## GW-406381

Cat. No.:	HY-119304		
CAS No.:	221148-46-5		
Molecular Formula:	C <sub>21</sub> H <sub>19</sub> N <sub>3</sub> O <sub>3</sub> S		
Molecular Weight:	393.46		
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 (254.16 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.5416 mL	12.7078 mL	25.4155 mL
		5 mM		0.5083 mL	2.5416 mL	5.0831 mL
10 mM			0.2542 mL	1.2708 mL	2.5416 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 (6.35 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	GW406381, a highly selective cyclooxygenase-2 (COX-2) inhibitor, attenuates spontaneous ectopic discharge in sural nerves of rats following chronic constriction injury <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	COX-2

### REFERENCES

---

[1]. Zhao FY, et al. GW406381, a novel COX-2 inhibitor, attenuates spontaneous ectopic discharge in sural nerves of rats following chronic constriction injury. Pain. 2007 Mar;128(1-2):78-87.

[2]. Boswell DJ, et al. Evaluation of GW406381 for treatment of osteoarthritis of the knee: two randomized, controlled studies. Medscape J Med. 2008;10(11):259.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA