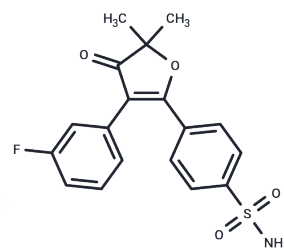


Polmacoxib

Chemical Properties

CAS No. :	301692-76-2
Formula:	C ₁₈ H ₁₆ FNO ₄ S
Molecular Weight:	361.39
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Polmacoxib (CG 100649) is a first-in-class NSAID drug candidate, is a dual inhibitor of carbonic anhydrase (CA) and COX-2. Polmacoxib inhibits premalignant and malignant colorectal lesions in mouse models, partly through inhibiting tumor cell proliferation.
Targets(IC50)	Carbonic Anhydrase, COX

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 55 mg/mL (152.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7671 mL	13.8355 mL	27.6709 mL
5 mM	0.5534 mL	2.7671 mL	5.5342 mL
10 mM	0.2767 mL	1.3835 mL	2.7671 mL
50 mM	0.0553 mL	0.2767 mL	0.5534 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kim SH, Margalit O, Katoh H, et al. CG100649, a novel COX-2 inhibitor, inhibits colorectal adenoma and carcinoma growth in mouse models. Invest New Drugs. 2014 Aug 3. [Epub ahead of print] PubMed PMID: 25085205.

Youn Choi H, Jin SJ, Jung JA, et al. Effects of ketoconazole on the pharmacokinetic properties of CG100649, a novel NSAID: a randomized, open-label crossover study in healthy Korean male volunteers. Clin Ther. 2014 Jan 1;36(1):115-25. doi: 10.1016/j.clinthera.2013.12.004. PubMed PMID: 24417786.

Skarke C, Alamuddin N, Lawson JA, et al. Comparative impact on prostanoid biosynthesis of celecoxib and the novel nonsteroidal anti-inflammatory drug CG100649. Clin Pharmacol Ther. 2012 Jun;91(6):986-93. doi: 10.1038/clpt.2012.3. Epub 2012 Jan 25. PubMed PMID: 22278334; PubMed Central PMCID: PMC3740579.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481