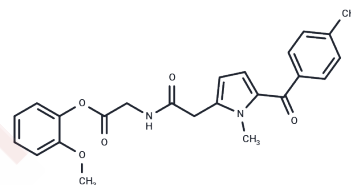


Amtolmetin guacil

Chemical Properties

CAS No. :	87344-06-7
Formula:	C ₂₄ H ₂₄ N ₂ O ₅
Molecular Weight:	420.46
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	Amtolmetin guacil (ST-679) inhibits prostaglandin synthesis and cyclooxygenase. Amtolmetin guacil has similar NSAID properties like tolmetin with additional analgesic, antipyretic, and gastroprotective properties.
Targets(IC50)	NO Synthase,COX,Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 60 mg/mL (142.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.95 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3783 mL	11.8917 mL	23.7835 mL
5 mM	0.4757 mL	2.3783 mL	4.7567 mL
10 mM	0.2378 mL	1.1892 mL	2.3783 mL
50 mM	0.0476 mL	0.2378 mL	0.4757 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

De Santis E, et al. [An evaluation of the analgesic activity and tolerance of ST-679 in patients with pain following orthopedic and traumatological interventions]. Clin Ter. 1993 Jan;142(1 Pt 2):53-9. Italian.

Nappi C, et al. [The treatment of postoperative pain in obstetrical-gynecologic surgery. A comparative study between ST-679 and paracetamol]. Clin Ter. 1993 Jan;142(1 Pt 2):47-52. Italian.

Donati G, Spinazzè R. [A clinical study to determine the optimal dosage of ST-679 in the treatment of rheumatic diseases]. Clin Ter. 1993 Jan;142(1 Pt 2):19-28. Italian.

Lin HC, et al. Clonal dissemination of invasive and colonizing clonal complex 1 of serotype VI group B Streptococcus in central Taiwan. J Microbiol Immunol Infect. 2016 Dec;49(6):902-909.

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