

Amtolmetin guacil

Chemical Properties

CAS No.:	87344-06-7
Formula:	C ₂₄ H ₂₄ N ₂ O ₅
Molecular Weight:	420.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Amtolmetin guacil is a non-acidic prodrug of tolmetin, having similar NSAID properties like tolmetin with additional analgesic, antipyretic, and gastroprotective properties. Amtolmetin guacil stimulates capsaicin receptors present on gastrointestinal walls, because of the presence of vanillic moiety and also releases NO which is gastroprotective. It also inhibits prostaglandin synthesis and cyclooxygenase.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.378 mL	11.891 mL	23.783 mL
5 mM	0.476 mL	2.378 mL	4.757 mL
10 mM	0.238 mL	1.189 mL	2.378 mL
50 mM	0.048 mL	0.238 mL	0.476 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Lin HC, Chen CJ, Chiang KH, Yen TY, Ho CM, Hwang KP, Su BH, Lin HC, Li TC, Lu JJ. 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. doi: 10.1016/j.jmii.2014.11.002. Epub 2014 Nov 11. PubMed PMID: 25560254.
2. Nappi C, Nolfe G, La Pinta M, Colace G, Ruotolo C, Affinito P. [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. PubMed PMID: 8472521.
3. 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. PubMed PMID: 8472517.
4. De Santis E, La Pinta M, Nolfe G. [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. PubMed PMID: 8472522.

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