

Product Data Sheet

Product Name: Amtolmetin guacil

Cat. No.: GD01463

Chemical Properties

Cas. No. 87344-06-7

Formula

M.Wt

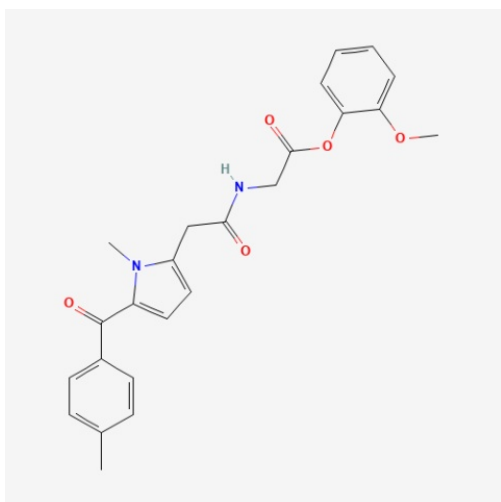
Solubility

Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Amtolmetin guacil is an effective nonsteroidal anti-Inflammatory agent with pain-relieving effects. Amtolmetin guacil inhibits prostaglandin synthesis and cyclooxygenase (COX). Amtolmetin guacil can stimulate capsaicin receptors present on the gastrointestinal wall and also releases gastroprotective

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

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nitric oxide (NO). Amtolmetin guacil can be used to research knee osteoarthritis.

Amtolmetin guacil (100 μ M; 0-60 min) converts to TMT (Tolmetin) along with MED5 (1-methyl-5-p-methylbenzoyl-pyrrol-2-acetamido aceticacid) in rat fresh plasma and rat liver microsomal, rapidly converts to MED5 and MED5 methyl ester without yielding TMT in human fresh plasma and human liver microsomes^[3].

Animal Model: Male Wistar rats^[3]

Dosage: 50 mg/kg

Administration: p.o.; single dosage

Pharmacokinetic Parameters of Amtolmetin guacil in male Wistar rats ^[3].

Result:		AUC _{0-t}	AUC _{0-∞}	C _{max}	T _{max} (h)	K _{el} (h ⁻¹)	t _{1/2,β} (h)
		(ng/mL·h)	(ng/mL·h)	(μ g/mL)			
	TMT						
	following Amtolmetin	162 $\pm$	164 $\pm$	81.62 $\pm$	0.50 $\pm$	0.28 $\pm$	2.41 $\pm$
	guacil dosing	21.49	22.47	5.02	0.00	0.00	0.01

[1]. Marcolongo, R., et al. A Meta-Analysis of the Tolerability of Amtolmetin Guacil, a Novel, Effective Nonsteroidal Anti-Inflammatory Drug, Compared with Established Agents. Clin. Drug Investig. 17, 89-96 (1999).

[2]. Niccoli L, et al. Renal tolerability of three commonly employed non-steroidal anti-inflammatory drugs in elderly patients with osteoarthritis. Clin Exp Rheumatol. 2002 Mar-Apr;20(2):201-7.

[3]. Hotha KK, et al. Species difference in the in vitro and in vivo metabolism of amtolmetin guacil. Arzneimittelforschung. 2010;60(11):667-74.

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