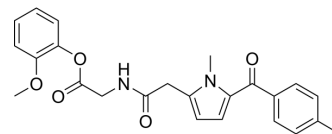


Amtolmetin guacil

Cat. No.:	HY-107320
CAS No.:	87344-06-7
Molecular Formula:	C ₂₄ H ₂₄ N ₂ O ₅
Molecular Weight:	420.46
Target:	Prostaglandin Receptor; COX; NO Synthase
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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 nitric oxide (NO). Amtolmetin guacil can be used to research knee osteoarthritis ^{[1][2]} .
IC₅₀ & Target	Prostaglandin receptor, COX, NO ^{[1][2]}
In Vitro	Amtolmetin guacil (100 μM; 0-60 min) converts to TMT (Tolmetin , HY-B1799) along with MED5 (1-methyl-5-p-methylbenzoyl-pyrrol-2-acetamido acetic acid) 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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

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