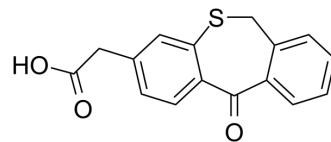


Tiopinac

Cat. No.:	HY-U00063		
CAS No.:	61220-69-7		
Molecular Formula:	C ₁₆ H ₁₂ O ₃ S		
Molecular Weight:	284.33		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Tiopinac (RS 40974), a dibenzthiepin, is an orally active and highly potent anti-inflammatory and anti-pyretic agent ^[1] .
In Vivo	Tiopinac (0.03-110 mg/kg) has 40 times the antiphlogistic potency of phenylbutazone. The dose required to reduce paw swelling by 30% is approximately 0.5 mg/kg. Tiopinac does not elicit overt side effects at the 20 mg/kg/day dose. Tiopinac causes a dose-related reversal of the decreases body weight caused by the adjuvant disease, the weight of those rats receiving 0.135 and 0.4 mg/kg/day being significantly greater than that of the positive controls. Tiopinac (0.3-30 mg/kg) is highly potent in inhibiting the pain evoked in the yeastinflamed hind paw of the rat ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]	Female rats, 160-180 g, receive 0.1 mL of a suspension in mineral oil of heatkilled <i>M. butyricum</i> (10 mg/mL) by means of two intradermal injections (0.05 mL each) into the proximal 1/4 of the tail on day 0. When the test agent is studied for its activity versus the development of the arthritic syndrome, it is administered p.o. (0.5 mL vehicle/dose) twice each day (at 9 a.m. and 4 p.m.) for 17 days, beginning on day 1. On day 18 the intensity of the swelling of the four foot pads and tail is determined blindly utilizing a scoring system in which the swelling in the four paws is scored 0-4 for each paw and the tail swelling is scored 0-3. The total maximum score is 19. The body weights and the weights of both hind paws are obtained. This procedure is a modification of a system initially described by PEARSON. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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REFERENCES

[1]. Rooks WH 2nd, et al. The anti-inflammatory and analgesic profile of 6,11-dihydrodibenzo-[b,e]-thiepin-11-one-3-acetic acid (tiopinac). Agents Actions. 1980 Jun;10(3):266-73.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA