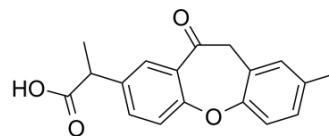


Bermoprofen

Cat. No.:	HY-118561
CAS No.:	78499-27-1
Molecular Formula:	C ₁₈ H ₁₆ O ₄
Molecular Weight:	296.32
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bermoprofen (AD-1590) is an orally active non-steroidal anti-inflammatory agent. Bermoprofen has potent antipyretic and analgesic activities with a short biological half-life. Bermoprofen is a potent antagonist of LPS-induced fever in rabbits ^{[1][2]} .	
In Vitro	Bermoprofen (AD-1590) shows ulcerogenic activity as a side-effect like other nonsteroidal anti-inflammatory agents ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Bermoprofen (AD-1590) (0.04-0.1 mg/kg; p.o.) shows a dose-related antipyretic activity in LPS-induced febrile rabbits ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male albino rabbits, 2.3-3 kg ^[2]
	Dosage:	0.04, 0.4, 0.1 mg/kg
	Administration:	Oral; given 1 h after i.v. injection of LPS
	Result:	Inhibited significantly the rise in rectal temperature at doses of 0.1 mg/kg or more, the temperature returned approximately to normal after 0.4 mg/kg.

REFERENCES

- [1]. Mori M, et al. Prolongation of antipyretic action and reduction of gastric ulcerogenicity in the rat by controlled-release granules of bermoprofen, a new nonsteroidal anti-inflammatory drug. *J Pharm Sci.* 1991 Sep;80(9):876-80.
- [2]. Nakamura H, et al. AD-1590, a potent antagonist of lipopolysaccharide-induced fever in rabbits. *J Pharm Pharmacol.* 1984 Mar;36(3):182-6.

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

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