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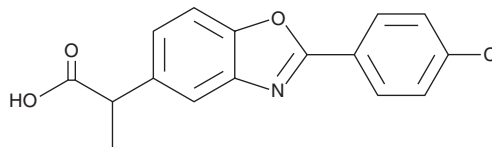
PRODUCT INFORMATION



Benoxaprofen

Item No. 36001

CAS Registry No.: 51234-28-7
Formal Name: 2-(4-chlorophenyl)- α -methyl-5-benzoxazoleacetic acid
Synonyms: LRCL 3794, NSC 299582
MF: C₁₆H₁₂ClNO₃
FW: 301.7
Purity: \geq 98%
Supplied as: A solid
Storage: -20°C
Stability: \geq 4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Benoxaprofen is supplied as a solid. A stock solution may be made by dissolving the benoxaprofen in the solvent of choice, which should be purged with an inert gas. Benoxaprofen is slightly soluble in DMSO and methanol (sonicated).

Description

Benoxaprofen is a non-steroidal anti-inflammatory drug.¹ It inhibits prostaglandin E₂ (PGE₂; Item No. 14010) and leukotriene C₄ (LTC₄; Item No. 20210) production in isolated mouse peritoneal macrophages stimulated with A23187 (Item No. 11016 | 22030) when used at a concentration of 100 μ M.² Benoxaprofen (25 and 50 μ g/ml) inhibits serum-induced chemotaxis of isolated rat peritoneal leukocytes.³ It induces hemolysis in isolated human erythrocytes and histamine release in isolated rat peritoneal mast cells in a light-dependent manner when used at a concentration of 10 μ M.⁴ Benoxaprofen reduces carrageenan-induced paw edema and yeast-induced fever in rats and acetic acid-induced writhing in mice in a dose-dependent manner.¹ Formulations containing benoxaprofen have previously been used in the treatment of osteoarthritis and rheumatoid arthritis.

References

1. Cashin, C.H., Dawson, W., and Kitchen, E.A. The pharmacology of benoxaprofen (2-[4-chlorophenyl]- α -methyl-5-benzoxazole acetic acid), LRCL 3794, a new compound with antiinflammatory activity apparently unrelated to inhibition of prostaglandin synthesis. *J. Pharm. Pharmacol.* **29(6)**, 330-336 (1977).
2. Brune, K., Aehringhaus, U., and Peskar, B.A. Pharmacological control of leukotriene and prostaglandin production from mouse peritoneal macrophages. *Agents Actions* **14(5-6)**, 729-734 (1984).
3. Meacock, S.C. and Kitchen, E.A. Effects of the non-steroidal anti-inflammatory drug benoxaprofen on leucocyte migration. *J. Pharm. Pharmacol.* **31(6)**, 366-370 (1979).
4. Sik, R.H., Paschall, C.S., and Chignell, C.F. The phototoxic effect of benoxaprofen and its analogs on human erythrocytes and rat peritoneal mast cells. *Photochem. Photobiol.* **38(4)**, 411-415 (1983).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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