

Product Data Sheet

Product Name: Benorilate (Benoral)

Cat. No.: GC31872

Chemical Properties

Cas. No. 5003-48-5

SMILES O=C(OC1=CC=C(NC(C)=O)C=C1)C2=CC=CC=C2OC(C)=O

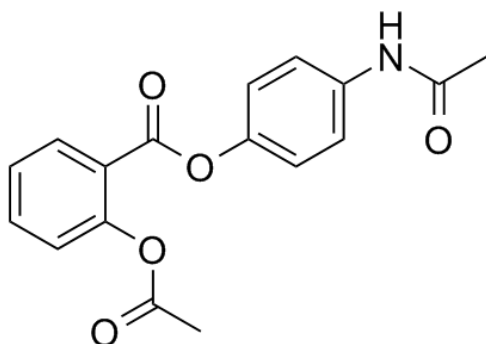
Formula $C_{17}H_{15}NO_5$ M.Wt 313.3

Solubility DMSO : 125 mg/mL (398.98 mM) Storage 4°C, protect from light

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

Benorylate (Benoral) is the esterification product of paracetamol and acetylsalicylic acid. It has anti-inflammatory, analgesic and antipyretic properties. Benorylate could also inhibit prostaglandin (PG) synthesis.

Benorilate is an esterified aspirin preparation whose antirheumatic properties are reported to be as

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

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good as those of aspirin[1]. Benorylate causes a large decrease in the liver's conversion rate of lactate into glucose, an important component of glucose homeostasis. Benorylate also impairs the urea synthesis rate from ammonia, another important function of the liver[2].

Benorylate is probably absorbed as the intact molecule which accounts for its good gastric tolerance[3]. Benorylate could inhibit PG synthesis in laboratory animals and in human tissue[4].

[1]. Croft DN, et al. Gastric bleeding and benorylate, a new aspirin. Br Med J. 1972 Sep 2;3(5826):545-7. [2]. Castell JV, et al. Effects of benorylate and imipacina on the metabolism of cultured hepatocytes. Xenobiotica. 1985 Aug-Sep;15(8-9):743-9. [3]. Wright V, et al. A review of benorylate - a new antirheumatic drug. Scand J Rheumatol Suppl. 1975;13:5-8. [4]. A. Bennett, et al. Inhibition of Prostaglandin Synthesis by Benorylate. Rheumatology, Volume XII, Issue suppl, 1 January 1973, Pages 101-105.

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