

Product Data Sheet

Product Name: Bendazac

Cat. No.: GC60632

Chemical Properties

Cas. No. 20187-55-7

SMILES O=C(O)COC1=NN(CC2=CC=CC=C2)C3=C1C=CC=C3

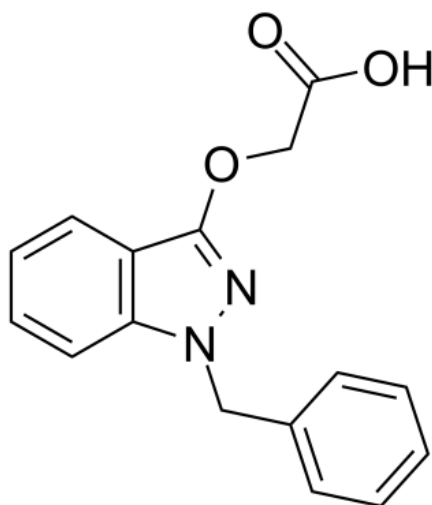
Formula $C_{16}H_{14}N_2O_3$ M.Wt 282.29

Solubility DMSO: 250 mg/mL (885.61 mM) Storage 4°C, away from moisture and 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

Bendazac is an oxyacetic acid with anti-inflammatory, antinecrotic, choleretic and antilipidaemic properties. Bendazac acts by preventing protein denaturation and delays the cataractogenic process[1][2].

Bendazac is an anti-inflammatory agent endowed with protein antidenaturant properties effective for various inflammatory skin conditions. Bendazac has been shown to be a strong reacting substrate in a chemical oxidizing system, which mimics a physiological pathway of hydroxy radical

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

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generation[2].By using EPR spectroscopy of spin-labelled bovine serum albumin (BSA), Bendazac was shown to prevent the BSA denaturation induced by urea, heat and free radicals produced in the xanthine/xanthine oxidase system[2].

[1]. Balfour JA, et al. Bendazac lysine. A review of its pharmacological properties and therapeutic potential in the management of cataracts. *Drugs*. 1990;39(4):575-596. [2]. Guglielmotti A, et al. Radical scavenger activity of bendazac, an anticataract non-steroidal anti-inflammatory agent. *Pharmacol Res*. 1995;32(6):369-373. [3]. Musci G, et al. Mechanism of the scavenger-like activity of bendazac. *Drugs Exp Clin Res*. 1987;13(5):289-292.

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