
Product Data Sheet

Product Name: Terbufibrol

Cat. No.: GC31457

Chemical Properties

Cas. No. 56488-59-6

SMILES O=C(O)C1=CC=C(OCC(O)COC2=CC=C(C(C)(C)C)C=C2)C=C1Formula $C_{20}H_{24}O_5$ M.Wt 344.4

Solubility Soluble in DMSO Storage Store at -20°C

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 **Protocol****Animal experiment:**

Baboon[1] Eighteen baboons (9 male, 9 female) are given the N-diet throughout, divided into 3 groups of 6 animals, and treated with Terbufibrol for 8 weeks, as follows: Group 1: control; Group 2: 50 mg/kg per day; Group 3: 200 mg/kg per day.

References:

[1]. Howard AN, et al. The hypocholesterolemic effect of terbufibrol and other drugs in normal and hypercholesterolemic baboons. *Atherosclerosis*. 1979 Apr;32(4):367-80.

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

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Background

Terbufibrol has been shown highly active in reducing serum total cholesterol (TC) levels in the normal and hypercholesterolemic male rat.

Terbufibrol (20-200 mg/kg) is active in lowering serum TC in animals on all 3 diets, but the extent of cholesterol reduction varies in the order cholesterol (HC)>high protein and fat diet (HPF)>N (max. reductions: 154, 80, and 70%, respectively). Clofibrate (200 mg/kg) decreases TC by a maximum of 28% with the HPF-diet and 13% with the N-diet but is inactive with the HC-diet. Cholestyramine (400 mg/kg/day) is inactive in HPF-fed animals but reduces TC in HC-fed animals by 45%. With the HPF-diet nicotinic acid (200 mg/kg) is inactive. Terbufibrol lowers HDL, HDL-TC, LDL, LDL-TC and LDL-TC/PL in animals fed HPF-diet. A greater decrease of LDL-TC occurs with increasing dose. The main effect of Clofibrate (200 mg/kg) is to reduce HDL and HDL-TC and to increase LDL[1].

[1]. Howard AN, et al. The hypocholesterolemic effect of terbufibrol and other drugs in normal and hypercholesterolemic baboons. *Atherosclerosis*. 1979 Apr;32(4):367-80.

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