
Product Data Sheet

Product Name: Bometolol Hydrochloride

Cat. No.: GC32665

Chemical Properties

Cas. No. 65023-16-7

SMILES O=C1NC2=C(C(OCC(O)CNCCC3=CC=C(OC)C(OC)=C3)=CC=C2OCC(C)=O)CC1.[H]ClFormula $C_{25}H_{33}ClN_2O_7$ M.Wt 508.99

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:**

Rats[1] In the acute experiments, normal female Donryu strain (DON, 14-15 weeks, 250-270 g), and SHR (17-18 weeks, 180-200 g), DOC (7-9 weeks, 180-210 g), and CLIP (7-9 weeks, 180-210 g) hypertensive rats are used. Bometolol hydrochloride is dissolved in H₂O and 0.01% Tween 80 solution at a volume of 5 mL/kg body weight for the acute and subchronic studies, respectively. The doses are in terms of the free base. The solution is administered orally by a gastric tube. In the acute experiment, H₂O (5 mL/kg) is given to the control groups. In the subchronic experiment, the drug is administered once a day for 5 weeks, 5 days per week, and Tween 80 solution (5 mL/kg) is given to the control groups[1].

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

[1]. Watanabe TX, et al. Acute and subchronic effects of bometolol on blood pressure in hypertensive rats. J Pharmacobiodyn. 1981 Jul;4(7):505-12.

Background

Bometolol Hydrochloride is a beta-adrenergic blocking agent, used for the research of cardiovascular disease.

Bometolol (10-30 mg/kg, p.o.) lowers the blood pressure dose-dependently in spontaneously hypertensive rats, deoxycorticosterone and salt hypertensive rats and two kindey, one clip hypertensive rats. In subchronic study, Bometolol (10-30 mg/kg, or 100-300 mg/kg, p.o.) dose-dependently decreases heart rate, plasma renin activity, heart and kindey weitht and incidence of vascular lesion, but shows no antihypertensive effects in all the hypertensive rats[1].

[1]. Watanabe TX, et al. Acute and subchronic effects of bometolol on blood pressure in hypertensive rats. J Pharmacobiodyn. 1981 Jul;4(7):505-12.

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