

Product Data Sheet

Product Name: Bupranolol

Cat. No.: GC62648

Chemical Properties

Cas. No. 14556-46-8

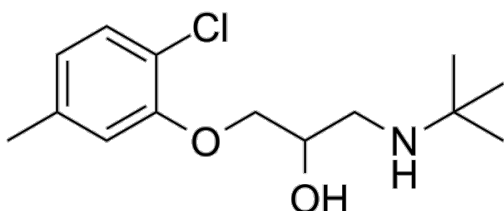
Formula $C_{14}H_{22}ClNO_2$ M.Wt 271.78

Solubility DMSO : 50 mg/mL (183.97 mM; ultrasonic and warming and heat to 60°C) 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



Background

Bupranolol is an orally active, competitive and non-selective β -adrenoceptor antagonist without intrinsic sympathomimetic activity[1].

Bupranolol (1~3 μ M) shifts isoprenaline-induced relaxation in the presence of 30 μ M propranolol. Bupranolol acts as a competitive antagonist of isoprenaline-induced relaxation in the presence of 300 nM propranolol, with a pA₂ value of 5.90. Bupranolol antagonizes β ₁- and β ₂-ARs with pA₂ values of

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

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≈9.0, and also antagonizes β 3-AR with a pA2 value of 6.0[1].

[1]. Chino D, et al. Pharmacological identification of β -adrenoceptor subtypes mediating isoprenaline-induced relaxation of guinea pig colonic longitudinal smooth muscle. J Smooth Muscle Res. 2018;54(0):13-27.

[2]. Babu RJ, et al. Effect of cyclodextrins on the complexation and transdermal delivery of bupranolol through rat skin. Int J Pharm. 2004;271(1-2):155-165.

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