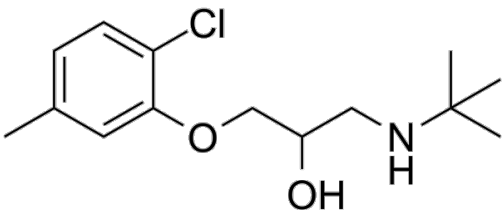
# Product Data Sheet

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 μM) shifts isoprenaline-induced relaxation in the presence of 30 μM 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 β1- and β2-ARs with pA2 values of

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≈9.0, and also antagonizes β3-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.

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