Carazolol

Cat. No.: HY-107327

CAS No.: 57775-29-8

Molecular Formula: $C_{18}H_{22}N_2O_2$

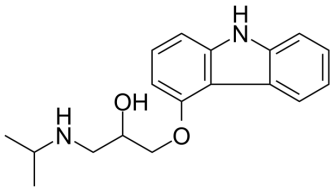
Molecular Weight: 298.38

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (335.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3514 mL	16.7572 mL	33.5143 mL
	5 mM	0.6703 mL	3.3514 mL	6.7029 mL
	10 mM	0.3351 mL	1.6757 mL	3.3514 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Carazolol is a β_1/β_2 adrenoceptor antagonist of high potency used in the research of hypertension. Carazolol is also a potent, selective β_3-adrenoceptor agonist[1].

IC_{50} & Target	β1 adrenoceptor	β2 adrenoceptor	β3 adrenoceptor

In Vivo

Carazolol (0.01 mg/kg; i.m.; once) shows no significant side effects[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Kivircik sheeps, 25-45 kg, nonpregnant[2]
Dosage:	0.01 mg/kg
Administration:	Intramuscular injection, once
Result:	Urea, creatinin, ALT, ALP, GGT, LDH, Ca, P, T.Protein, Mg, Cu levels in blood serum parameters were found to be in normal level however serum Fe, Zn levels were decreased.

REFERENCES

[1]. Remzi Gonul, et al. Effects of carazolol on electrocadiographic and trace element status in sheeps. Insights Vet Sci. 2018; 2: 001- 004.

[2]. A Méjean, et al. Carazolol: a potent, selective beta 3-adrenoceptor agonist. Eur J Pharmacol. 1995 Nov 30;291(3):359-66.

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