

Product Data Sheet

Product Name: Tolonidine

Cat. No.: GC38866

Chemical Properties

Cas. No. 4201-22-3

SMILES CC1=CC=C(NC2=NCCN2)C(Cl)=C1

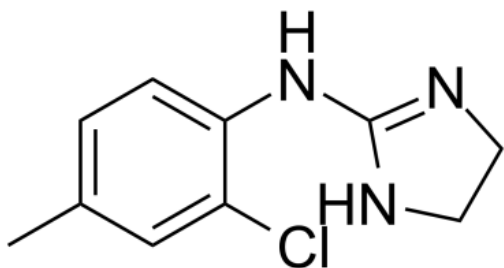
Formula $C_{10}H_{12}ClN_3$ M.Wt 209.68

Solubility DMSO : 100 mg/mL (476.92 mM; Need ultrasonic) 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

Tolonidine is a derivative of imidazoline. Tolonidine is orally active and has been shown to possess hypotensive and antihypertensive properties[1].

In the anesthetized dog, tolونidine administered i.v. decreases the amplitude of ventricular contractions, reduces aortic blood flow and increases peripheral vascular resistances[1]. In the bivagotomized pithed rat, tolونidine induces a long-lasting increase in blood pressure with no

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

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secondary hypotension, thus suggesting peripheral sympathomimetic properties[1].

[1]. Cosnier D, et al. Pharmacological properties of 2-(2-chloro-p-toluidino)-2-imidazoline-nitrate (tolonidine), a new antihypertensive agent. II. Action on cardiac contraction, circulatory parameters, autonomic receptors and diuresis. *Arzneimittelforschung*. 1975 Nov;25(11):1802-6.

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