

Product Data Sheet

Product Name: Guanethidine

Cat. No.: GC66202

Chemical Properties

Cas. No. 55-65-2

Formula $C_{10}H_{22}N_4$

M.Wt 198.31

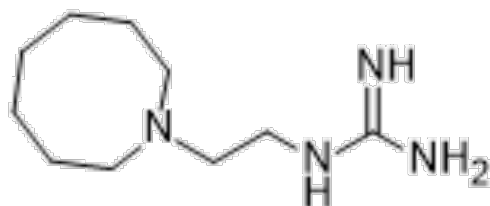
Solubility

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

Guanethidine sulphate was synthesized in 1959. Guanethidine is thought to lower **blood pressure by interfering with the metabolism of chemical transmitter substances in post-ganglionic sympathetic nerve fibres.**

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

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Ablation of sympathetic fibers is associated with a loss of rat endothelial cell marker (RECA), but no significant effect of guanethidine was found on the survival of endothelial cells and mesenchymal stem cells in vitro^[1].

Guanethidine (30 mg/kg, s.c., 1 h) unaffected IL-18 hypernociception in TNFR1^(-/-) mice as a sympathetic blocker^[2].

Animal Model: Wild-type (WT) Balb/c, TNFR1^(-/-) and IFN- γ ^(-/-) mice^[2].

Dosage: 30 mg/kg

Administration: Guanethidine (30 mg/kg, s.c., 1 h, diluted in saline)

Result: Pre-treatment with guanethidine (sympathetic blocker) unaffected IL-18 hypernociception in TNFR1^(-/-) mice.

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