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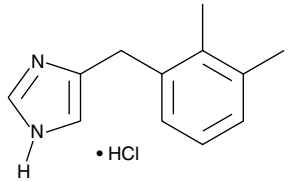
Product Information

Detomidine (hydrochloride)

Item No. 17853

CAS Registry No.: 90038-01-0
Formal Name: 5-[(2,3-dimethylphenyl)methyl]-1H-imidazole, monohydrochloride
Synonyms: Domosedan, MPV 253AII
MF: $C_{12}H_{14}N_2 \cdot HCl$
FW: 222.7
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 213 nm



Laboratory Procedures

For long term storage, we suggest that detomidine (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

Detomidine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the detomidine (hydrochloride) in the solvent of choice. Detomidine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of detomidine (hydrochloride) in ethanol is approximately 30 mg/ml and approximately 25 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of detomidine (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of detomidine (hydrochloride) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Detomidine is a selective α_2-adrenoceptor agonist (K_i = 1.62 nM) that binds to α_1-adrenoceptors with much weaker potency (K_i = 415 nM).[1] It is primarily used as a sedative for horses in large animal veterinary medicine.[2]

References

1. Virtanen, R., Savola, J.M., Saano, V., *et al.* Characterization of the selectivity, specificity and potency of medetomidine as an α_2-adrenoceptor agonist. *Eur. J. Pharmacol.* **150(1-2)**, 9-14 (1988).
2. Grimsrud, K.N., Mama, K.R., Thomasy, S.M., *et al.* Pharmacokinetics of detomidine and its metabolites following intravenous and intramuscular administration in horses. *Equine Veterinary Journal* **41(4)**, 361-365 (2009).

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