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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

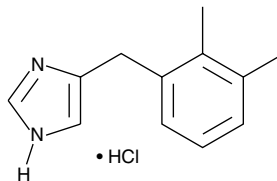
Product Information



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: C₁₂H₁₄N₂ • 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 α₂-adrenoceptor agonist (K_i = 1.62 nM) that binds to α₁-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 α₂-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).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17853

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com