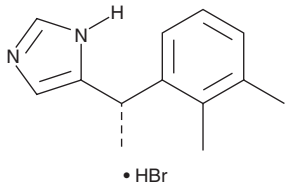
PRODUCT INFORMATION

Dexmedetomidine (hydrobromide)

Item No. 46023

CAS Registry No.: 1391972-96-5
Formal Name: 5-[(1S)-1-(2,3-dimethylphenyl) ethyl]-1H-imidazole, monohydrobromide
MF: $C_{13}H_{16}N_2 \bullet HBr$
FW: 281.2
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥10 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Dexmedetomidine (hydrobromide) (Item No. 46023) is an analytical reference standard categorized as a sedative.[1] Dexmedetomidine induces sedation in dogs. It has analgesic activity alone, and an additive analgesic effect in combination with fentanyl (Item Nos. ISO60197 | 46331 | 14719), in rats.[2,3] Formulations containing dexmedetomidine have been used as veterinary sedatives. This product is intended for analytical forensic applications. This product is also available as a general research tool (Item Nos. 39544 | 15581).

References

1. Kuusela, E., Vainio, O., Kaistinen, A., *et al.* Sedative, analgesic, and cardiovascular effects of levomedetomidine alone and in combination with dexmedetomidine in dogs. *Am. J. Vet. Res.* **62(4)**, 616-621 (2001).
2. Gertler, R., Brown, H.C., Mitchell, C.H., *et al.* Dexmedetomidine: A novel sedative-analgesic agent. *Proc. (Bayl. Univ. Med. Cent.)* **14(1)**, 13-21 (2001).
3. Meert, T.F. and de Kock, M. Potentiation of the analgesic properties of fentanyl-like opioids with α2-adrenoceptor agonists in rats. *Anesthesiology* **81(3)**, 677-688 (1994).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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