

# Dexmedetomidine (hydrochloride)

Catalog No: tcsc2451



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

145108-58-3

**Formula:**

$C_{13}H_{17}ClN_2$

**Pathway:**

GPCR/G Protein;Autophagy

**Target:**

Adrenergic Receptor;Autophagy

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : ≥ 50 mg/mL (211.20 mM)

**Alternative Names:**

(+)-Medetomidine hydrochloride;(S)-Medetomidine hydrochloride

**Observed Molecular Weight:**

236.74

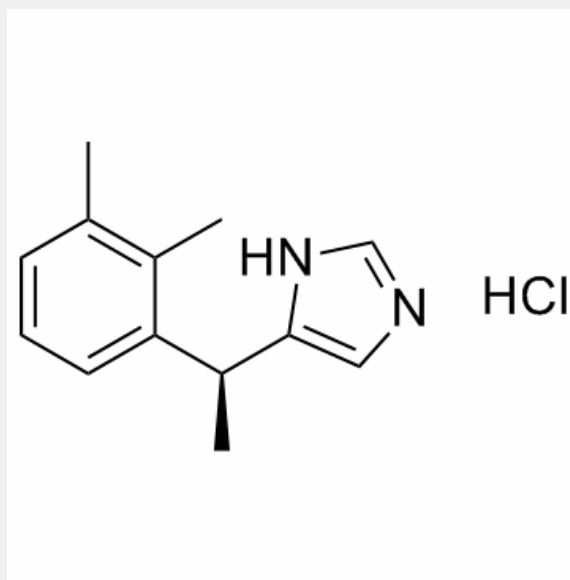
## Product Description

Dexmedetomidine Hydrochloride is an agonist of adrenergic alpha-2 receptor, which is used in veterinary medicine for its analgesic and sedative properties.

Target: Adrenergic alpha-2 Receptor

Dexmedetomidine, acting at alpha(2A) adrenoceptors, must be present during the encoding process to decrease discrete cue fear memory; however, its ability to suppress contextual memory is likely the result of blocking the consolidation process [1].

Dexmedetomidine had no analgesic effects in alpha(2A)-adrenoceptor KO mice [2]. Dexmedetomidine was effective in blocking these sympathomimetic actions of cocaine even in all 7 subjects who were homozygous for the Del322-325 polymorphism in the alpha2C AR, a loss-of-function mutation that is highly enriched in blacks [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!