Product Name: Medetomidine hydrochloride

CAS No.: 86347-15-1
Cat. No.: HY-17034B
MWt: 236.74
Formula: C13H17ClN2
Purity: >98%

Solubility: DMSO 12 mg/mL; Water 48 mg/mL

Mechanisms:
Pathways: GPCR/G protein; Target: Adrenergic Receptor

Biological Activity:
Medetomidine 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
Medetomidine, 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]. Medetomidine had no analgesic effects in alpha(2A)-adrenoceptor KO mice [2]. Medetomidine 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].

References:

Caution: Not fully tested. For research purposes only

Medchemexpress LLC

www.medchemexpress.com