
Product Data Sheet

Product Name: Detomidine

Cat. No.: GC17197

Chemical Properties

Cas. No. 76631-46-4

Chemical Name 5-[(2,3-dimethylphenyl)methyl]-1H-imidazole

SMILES CC1=C(C(=CC=C1)CC2=CN=CN2)CFormula $C_{12}H_{14}N_2$ M.Wt 186.25

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Detomidine produce dose-dependent sedative and analgesic effects, is a nonnarcotic, synthetic α_2 -adrenergic agonist. Target: α_2 -adrenergic agonist. Detomidine is an imidazole derivative and α_2 -adrenergic agonist, used as a large animal sedative, primarily used in horses. It is usually available as the salt detomidine hydrochloride. It is a prescription medication available to veterinarians sold under the trade name Dormosedan. Currently, detomidine is only licenced for use in horses. Detomidine is a sedative with analgesic properties. α_2 -adrenergic agonists produce dose-dependent sedative and analgesic effects, mediated by activation of α_2 catecholamine receptors, thus inducing a negative feedback response, reducing production of excitatory neurotransmitters. Due to inhibition of the sympathetic nervous system, detomidine also has cardiac and respiratory effects and an antidiuretic action.

References:

[1]. Virtanen R, et al. Pharmacological evidence for the involvement of alpha-2

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

adrenoceptors in the sedative effect of detomidine, a novel sedative-analgesic. J Vet Pharmacol Ther. 1985 Mar;8(1):30-7.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA