
Product Data Sheet

Product Name: Win 58237

Cat. No.: GC31327

Chemical Properties

Cas. No. 158001-76-4

SMILES O=C1C2=C(N(C3CCCC3)N=C2C)NC(C4=CC=NC=C4)=N1

Formula $C_{16}H_{17}N_5O$ M.Wt 295.34

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

Win 58237 is a cyclic nucleotide phosphodiesterase (PDE) inhibitor, with K_i of 170 nM for PDE V, possessing vasorelaxant activity.

Win 58237 is a competitive inhibitor of cGMP PDE V from canine aorta, with a K_i value of 170 nM. Win 58237 is a potent inhibitor of PDE V isolated from vascular tissue with an IC_{50} value of 240 nM. It is a relatively less potent inhibitor of calmodulin-sensitive PDE I and cGMP-inhibitable cyclic AMP PDE III; but does inhibit cyclic AMP PDE IV with an IC_{50} value of approximately 300 nM. Win 58237 possesses vasorelaxant activity in the presence of an intact endothelium or nitric oxide[1].

Win 58237 (0.3-3.0 mg/kg i.v.) decreases mean arterial pressure in conscious spontaneously hypertensive rats with an associated increase in vascular (aortic) cGMP content in vivo. Win 58237 (10 mg/kg i.v.) increases plasma cGMP levels, from basal levels of 6.7 ± 1.0 to 31.4 ± 3.5 fmol/ μ L[1].

[1]. Silver PJ, et al. Cyclic GMP potentiation by WIN 58237, a novel cyclic nucleotide phosphodiesterase inhibitor. J Pharmacol Exp Ther. 1994 Dec;271(3):1143-9.

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

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