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Certificate of Analysis

www.tocris.com

Product Name: CGS 9343B

Catalog No.: 2255 Batch No.: 2

CAS Number: IUPAC Name:

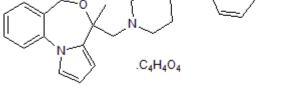
1,3-Dihydro-1-[1-[(4-methyl-4H,6H-pyrrolo[1,2-a][4,1]benzoxazepin-4-yl)methyl]-4-piperidinyl]-2H-benzimidazol-2-one maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

109826-27-9

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $\begin{array}{l} C_{26}H_{28}N_4O_2.C_4H_4O_4.{}^{_{14}}H_2O\\ 549.11\\ \\ \text{White solid}\\ \\ \text{DMSO to 50 mM}\\ \text{ethanol to 10 mM with gentle warming}\\ \\ \text{Desiccate at RT}\\ \end{array}$

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: Melting Point: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: $R_{f} = 0.35 \text{ (Dichloromethane:Methanol [9:1])}$ Between 183 - 185°C
Shows >98.4% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 65.62 5.97 10.2
Found 65.45 5.87 10.12

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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1,3-Dihydro-1-[1-[(4-methyl-4H,6H-pyrrolo[1,2-a][4,1]benzoxazepin-4-yl)methyl]-4-piperidinyl]-2H-benzimidazol-2-one maleate

Description:

Calmodulin antagonist; inhibits calmodulin-stimulated cAMP phosphodiesterase activity with an IC₅₀ of 3.3 nM. Also prevents estrogen-induced transcription activation by ER, reversibly blocks voltage-activated Na⁺, Ca²⁺ and K⁺ currents in PC12 cells and inhibits nAChR.

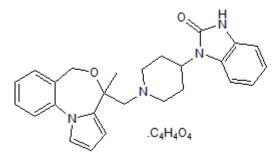
Physical and Chemical Properties:

 $\begin{array}{l} \mbox{Batch Molecular Formula: } C_{26}H_{28}N_4O_2.C_4H_4O_4.\rlap{1}{}^{4}H_2O \\ \mbox{Batch Molecular Weight: 549.11} \\ \mbox{Physical Appearance: White solid} \end{array}$

109826-27-9

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 50 mM ethanol to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Norman *et al* (1987) CGS 9343B, a novel, potent, and selective inhibitor of Calmodulin activity. Mol.Pharmacol. **31** 535. PMID: 3033469. Neuhaus and Reber (1992) Inhibition of membrane currents and rises of intracellular Ca²⁺ in PC12 cells by CGS 9343B, a calmodulin inhibitor. Eur.J.Pharmacol. **226** 183. PMID: 1379190.

Li et al (2003) Calmodulin regulates the transcriptional activity of estrogen receptors. J.Biol.Chem. 278 1195. PMID: 12419798.

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