

Product Data Sheet

Product Name: CGS 9343B

Cat. No.: GC16911

Chemical Properties

Cas. No. 109826-27-9

Chemical Name (S)-1-(1-((4-methyl-4,6-dihydrobenzo[e]pyrrolo[2,1-c][1,4]oxazepin-4-yl)methyl)piperidin-4-yl)-1H-benzo[d]imidazol-2(3H)-one fumarate

SMILES O=C(NC1=CC=CC=C21)N2C3CCN(C[C@]4(C)OCC5=CC=CC=C5N6C4=CC=C6)CC3.OC(/C=C/C(O)=O)=O

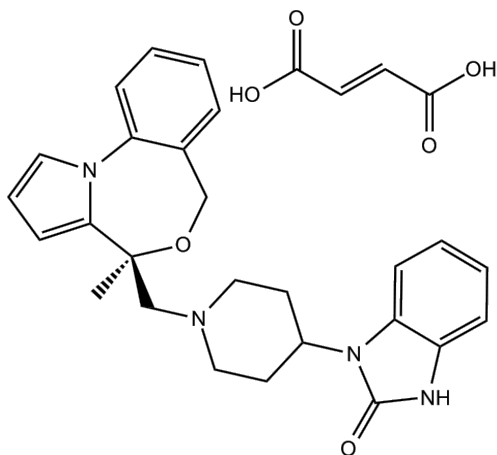
Formula $C_{26}H_{28}N_4O_2 \cdot C_4H_4O_4$ M.Wt 544.61

Solubility <27.23mg/ml in DMSO; <5.45mg/ml in ethanol Storage Desiccate at RT

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

Zaldaride maleate (CGS-9343B) is a potent and selective inhibitor of calmodulin. Zaldaride maleate (CGS-9343B) inhibits CaM (calmodulin)-stimulated cAMP phosphodiesterase activity, with an IC₅₀ of 3.3 nM[1][2]. Zaldaride maleate (CGS-9343B) prevents estrogen-induced transcription activation by

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ER, reversibly blocks voltage-activated Na⁺, Ca²⁺ and K⁺ currents in PC12 cells and inhibits nAChR[3].

References:

- [1]. Norman JA, et al. CGS 9343B, a novel, potent, and selective inhibitor of calmodulin activity. Mol Pharmacol. 1987 May;31(5):535-40.
- [2]. Neuhaus R, et al. Inhibition of membrane currents and rises of intracellular Ca²⁺ in PC12 cells by CGS 9343B, a calmodulin inhibitor. Eur J Pharmacol. 1992 Jun 5;226(2):183-5.
- [3]. Li L, et al. Calmodulin regulates the transcriptional activity of estrogen receptors. Selective inhibition of calmodulin function in subcellular compartments. J Biol Chem. 2003 Jan 10;278(2):1195-200.

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