Zaldaride maleate

Cat. No.: HY-105118A
CAS No.: 109826-27-9
Molecular Formula: C₃₀H₃₂N₄O₆
Molecular Weight: 544.6
Target: nAChR
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling
Storage: Powder -20°C 3 years
        4°C 2 years
        In solvent -80°C 6 months
        -20°C 1 month

BIOLOGICAL ACTIVITY

Description
Zaldaride maleate (CGS-9343B) is a potent, orally active 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 ER, reversibly blocks voltage-activated Na⁺, Ca²⁺ and K⁺ currents in PC12 cells and inhibits nAChR[3].

IC₅₀ & Target
IC₅₀: 3.3 nM (calmodulin)[1][2].

In Vivo
Zaldaride maleate (KW 5617, P.O., 3 mg/kg) ameliorates the diarrhea in the 16, 16-dimethyl prostaglandin E₂ model[4]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Male Sprague-dawley rats weighing 193-265 g[4].
Dosage: 3-100 mg/kg.
Administration: P.O..
Result: KW-5617 at 3 to 100 mg/kg 60 min before DMPGE2 challenge, significantly ameliorated the DMPGE-induced diarrhea, when this drug at 100 mg/kg (p.o. significantly reduced fecal evacuation. Pretreatment with KW-5617 at 3 to 10 mg/kg (p.o.) significantly delayed the onset of diarrhea, and this drug at 30 and 100 mg/kg (p.o.) reduced or abolished the incidence of diarrhea.

REFERENCES