



A 922500

Catalog No: tcsc0308

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 959122-11-3
Formula: C ₂₆ H ₂₄ N ₂ O ₄
Pathway: Metabolic Enzyme/Protease
Target: Acyltransferase
Purity / Grade: >98%
Solubility: DMSO : ≥ 102.9 mg/mL (240.15 mM)
Alternative Names: DGAT-1 Inhibitor 4a
Observed Molecular Weight: 428.48



Product Description

A 922500 is a potent, selective, and orally bioavailable **DGAT-1** inhibitor exhibiting **IC**₅₀ values of 9 and 22 nM against human and mouse DGAT-1, respectively.

IC50 & Target: IC50: 9 nM (human DGAT-1), 22 nM (mouse DGAT-1)[1]

In Vitro: A 922500 (A-922500) demonstrates excellent selectivity over other acyltransferases, including DGAT-2 (IC $_{50}$ =53 μ M) and the phylogenetic family members acyl coenzyme A cholesterol acyltransferase-1 and -2 (IC $_{50}$ =296 μ M) $^{[1]}$.

In Vivo: DGAT-1 inhibitor A 922500 (A-922500) reduces serum triglyceride levels from baseline at all doses tested; however, this is only statistically significant at the 3 mg/kg dose, which lowers serum triglycerides by 53%. Similarly, the 3 mg/kg dose of A 922500 significantly reduces serum FFA concentrations by 55% and total cholesterol by 25%. DGAT-1 inhibition has no significant effect on body weight at any dose tested. Although A 922500 dpes not significantly affect LDL-cholesterol or HDL-cholesterol individually, the serum LDL/HDL-cholesterol ratio is significantly improved by A 922500 at 0.3 and 3 mg/kg. Similar to the dyslipidemic hamster, treatment with 3 mg/kg A 922500 significantly reduces serum triglyceride concentrations (39%). FFA levels significantly increase over the 14-day period in vehicle-treated animals. This increase is inhibited in a dose-dependent manner by A 922500 such that FFA concentrations are 32% lower after 14 days of treatment with the DGAT-1 inhibitor at 3 mg/kg, compared with the vehicle group (p [1].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!