

# LY2562175

Catalog No: tcsc0033341



## Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg

**Size:** 50mg



## Specifications

**CAS No:**

1103500-20-4

**Formula:**

$C_{28}H_{27}Cl_2N_3O_4$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

FXR

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Storage Instruction:**

Dry, Keep in dark ; at 0 - 4 °C for short term (days to weeks) or -20 °C for long term (months to years); Shipped under ambient temperature as non-hazardous chemical. This product is stable enough for a few weeks during ordinary shipping.

**Observed Molecular Weight:**

540.44

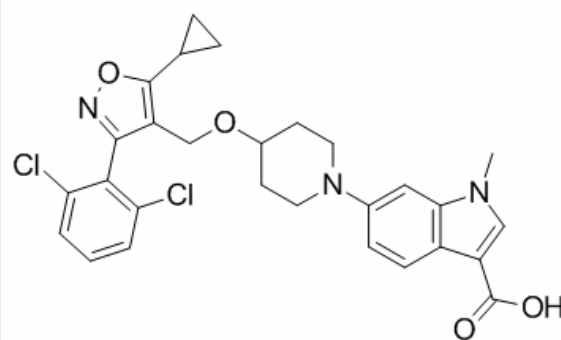
**Product Description**

LY2562175 is a potent and selective **FXR** agonist with an **EC<sub>50</sub>** of 193 nM.

IC50 & Target: EC50: 193 nM (FXR)

**In Vitro:** LY2562175 promotes transcriptional activation of human FXR in a cell-based co-transfection assay with an EC<sub>50</sub> of 193 nM. LY2562175 promotes recruitment of a peptide from the nuclear receptor interaction domain of the coactivator SRC-1 with a relative EC<sub>50</sub> of 121 nM and 93.5% efficacy as compare to GW4064<sup>[1]</sup>.

**In Vivo:** LY2562175 causes a dose-dependent decrease in serum cholesterol and serum triglycerides. At a dose of 10 mg/kg, the decrease in cholesterol with LY2562175 is 80% below vehicle-treated animals, and the decrease in serum triglycerides is 76% from control group. The ED<sub>50</sub> for serum cholesterol is determined to be 2 and 3.4 mg/kg for serum triglycerides. Treatment of female ZDF rats with LY2562175 results in a dose dependent lowering of plasma triglycerides in the fasted and nonfasted states. When administered as a fixed dose combination with rosiglitazone, LY2562175 further lowers fasted and nonfasted plasma triglycerides. FPLC fractionation of the lipoproteins reveals that LY2562175 treatment results in a reduction in vLDL-C and a dramatic increase in HDL-c in this animal model<sup>[1]</sup>.



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