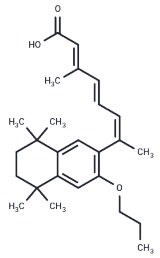
# Data Sheet (Cat.No.T15748)

TargetMol
YOUR TARGET MOLECULES

LG100754

## Chemical Properties



CAS No. : 180713-37-5

Formula: C26H36O3

Molecular Weight: 396.56

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## Biological Description

| | |
|---|---|
| Description | LG100754 (UVI 2112) is an insulin sensitizer that functions through RXR. LG100754 is an RXR dimer modulator. LG100754 acts as an RXR: RXR homodimer antagonist, but functions as an agonist towards RXR: PPARα and RXR: PPARγ heterodimers. |
| Targets(IC50) | PPAR |
| In vitro | LG100754 functions as an activator of endogenous RXR heterodimers, specifically facilitating the activity of RXR: PPARγ heterodimers. It plays a crucial role in regulating insulin-dependent signaling pathways. Additionally, LG100754 has been shown to mitigate TNFα-mediated insulin resistance in mature adipocytes[1]. |
| In vivo | LG100754 (100 mg/kg) fully blocks the enhance in glucose levels. It also shows that LG100754 can improve insulin resistance in vivo[1]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 90.0 mg/mL (227.0 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.5217 mL | 12.6084 mL | 25.2169 mL |
| 5 mM | 0.5043 mL | 2.5217 mL | 5.0434 mL |
| 10 mM | 0.2522 mL | 1.2608 mL | 2.5217 mL |
| 50 mM | 0.0504 mL | 0.2522 mL | 0.5043 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Cesario RM, et al. The rexinoid LG100754 is a novel RXR:PPARgamma agonist and decreases glucose levels in vivo. Mol Endocrinol. 2001 Aug;15(8):1360-9.