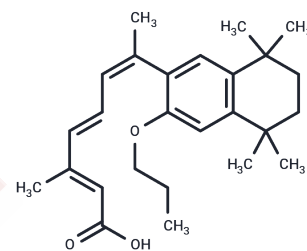


LG100754

Chemical Properties

CAS No. :	180713-37-5
Formula:	C ₂₆ H ₃₆ O ₃
Molecular Weight:	396.56
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



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: PPAR α and RXR: PPAR γ heterodimers.
Targets(IC50)	Retinoid Receptor,PPAR
In vitro	LG100754 functions as an activator of endogenous RXR heterodimers, specifically facilitating the activity of RXR: PPAR γ heterodimers. It plays a crucial role in regulating insulin-dependent signaling pathways. Additionally, LG100754 has been shown to mitigate TNF α -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 mg/mL (226.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.32 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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