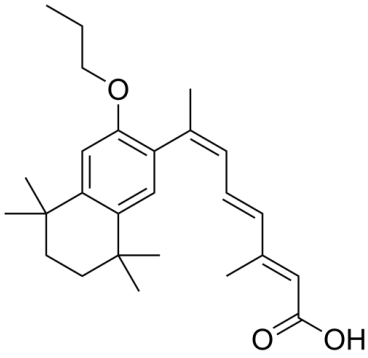
Data Sheet

Product Name:	LG100754
Cat. No.:	CS-0029091
CAS No.:	180713-37-5
Molecular Formula:	$C_{26}H_{36}O_3$
Molecular Weight:	396.56
Target:	RAR/RXR
Pathway:	Metabolic Enzyme/Protease
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

LG100754 (UVI 2112) is a **RXR dimers** modulater. LG100754 acts as a **RXR:RXR** homodimer antagonist, but functions as a agonist towards **RXR:PPARα** and **RXR:PPARγ** heterodimers. LG100754 is an insulin sensitizer that functions through RXR[1]. **In Vitro:** LG100754 is a selective activator of endogenous RXR heterodimers[1].
LG100754 can also improve TNFα-mediated insulin resistance in mature adipocytes[1].
LG100754 acts as a bona fide activator of endogenous RXR:PPARγ heterodimers and regulator of insulin-dependent signaling pathways[1].
In Vivo: LG100754 (100 mg/kg) completely blocks the increase in glucose levels, suggesting that LG100754 can improve insulin resistance in vivo[1].

References:

[1]. 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.

CAIndexNames:

2,4,6-Octatrienoic acid, 3-methyl-7-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-3-propoxy-2-naphthalenyl)-, (2E,4E,6Z)-

SMILES:

C/C(C1=C(OCCC)C=C2C(C)(C)CCC(C)(C)C2=C1)=C/C=C/C(C)=C/C(O)=O

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