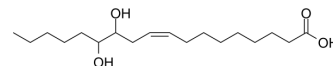


12,13-DiHOME

Cat. No.:	HY-116003
CAS No.:	263399-35-5
Molecular Formula:	C ₁₈ H ₃₄ O ₄
Molecular Weight:	314.46
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	12,13-DiHOME is a stimulator of Brown adipose tissue (BAT), as well as a thermogenic lipokine that activates BAT in response to cold. (±)12,13-DiHOME activates BAT fuel uptake and enhances cold tolerance, via promoting the translocation of the FA transporters FATP1 and CD36 to the cell membrane. (±)12,13-DiHOME can be used for research of metabolic disorders ^[1] .	
In Vivo	12,13-DiHOME (1 µg/kg; retro-orbitally injection; once daily for 2 weeks) acutely decreases levels of serum triglycerides in mice with high-fat diet model, and increases BAT uptake to defend cold ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Mice fed a high-fat diet ^[1]
	Dosage:	1 µg/kg
	Administration:	Retro-orbitally injection; once daily for 2 weeks
	Result:	Displayed no effects on body weight, glucose tolerance or circulating nonesterified FA. Increased BAT-specific lipid uptake and improved oral lipid tolerance. Increased radiolabeled FA uptake (Fig. 3f) and glucose uptake.
	Animal Model:	To explore the biosynthesis of (±)12, 13-dihome in mice in vivo ^[1]
	Dosage:	
	Administration:	7-d cold challenge in mice: mice treated with norepinephrine (NE) for 30 min and exposed to 4°C-cold for 1 h
	Result:	Result: Increased in the circulation of male mice exposed to cold, but not female mice. And also, the enzymes producing 12,13-diHOME were uniquely induced in BAT by cold stimulation.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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