Dihydrocurcumin

Cat. No.: HY-N1967

CAS No.: 76474-56-1

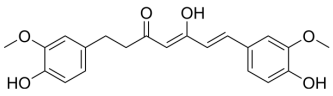
Molecular Formula: $C_{21}H_{22}O_6$

Molecular Weight: 370.4

Target: Fatty Acid Synthase (FASN)

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (67.49 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6998 mL	13.4989 mL	26.9978 mL
	5 mM	0.5400 mL	2.6998 mL	5.3996 mL
	10 mM	0.2700 mL	1.3499 mL	2.6998 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dihydrocurcumin, a major metabolites of curcumin, reduces lipid accumulation and oxidative stress. Dihydrocurcumin regulates mRNA and protein expression levels of SREBP-1C, PNPLA3 and PPARα, increases protein expression levels of pAKT and PI3K, and reduced the levels of cellular NO and ROS via Nrf2 signaling pathways[1].

In Vitro

Dihydrocurcumin (0-50 μM, 24 h) decreases OA induced TG level in HepG2 and L02 cells[1].
Dihydrocurcumin (0-50 μM, 24 h) promotes glucose uptake and reduces the levels of cellular NO and ROS[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yu Q, et al. Dihydrocurcumin ameliorates the lipid accumulation, oxidative stress and insulin resistance in oleic acid-induced L02 and HepG2 cells. Biomed Pharmacother. 2018 Jul;103:1327-1336.

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

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