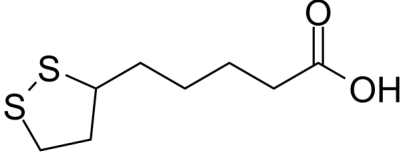


Data Sheet

Product Information

Catalog Number	BP16873
Product Name	α -Lipoic Acid
Description	α -Lipoic Acid inhibits NF- κ B-dependent HIV-1 LTR activation. α -Lipoic Acid induces endoplasmic reticulum (ER) stress-mediated apoptosis in hepatoma cells. α -Lipoic Acid is an antioxidant, which is an essential cofactor of mitochondrial enzyme complexes.
In vitro	α -Lipoic Acid (Alpha-Lipoic acid, ALA) is a naturally occurring dithiol compound, plays an essential role in mitochondrial bioenergetics. It reduces lipid accumulation in the liver by regulating the transcriptional factors SREBP-1, FoxO1, and Nrf2, and their downstream lipogenic targets via the activation of the SIRT1/LKB1/AMPK pathway. Treatment of cells with α -Lipoic Acid (250, 500 and 1000 μ M) significantly increases the NAD ⁺ /NADH ratio in HepG2 cells (P<0.05 or P<0.01). Treatment with α -Lipoic Acid (50, 125, 250 and 500 μ M) increases SIRT1 activity in HepG2 cells. α -Lipoic Acid (50, 125, 250, 500 and 1000 μ M) increases phosphorylation of AMPK and acetyl-CoA carboxylase (ACC) in HepG2 cells in a dose-dependent fashion
In vivo	Administration of α -Lipoic Acid (100 mg/kg or 200 mg/kg) markedly reduces visceral fat mass in mice. In addition, α -Lipoic Acid (100 mg/kg or 200 mg/kg) treatment inhibits the appetite and causes a dramatic weight loss (all P<0.05)
Synonyms	Lipoic acid, Alphaslipoic acid
CAS No.	62-46-4
Chemical Formula	C ₈ H ₁₄ O ₂ S ₂
Molecular Weight	206.32

Solubility	DMSO: 10 mM
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <chem>OS(=O)(=O)CCCC1SCSC1</chem>

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