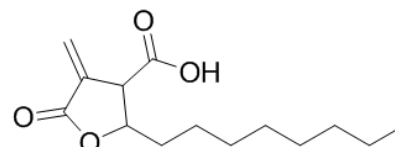


Product Name : FASN inhibitor C75
Cat. No. : PC-43005
CAS No. : 218137-86-1
Molecular Formula : C₁₄H₂₂O₄
Molecular Weight : 254.3221
Target : Fatty Acid Synthase
Solubility : 10 mM in DMSO



Biological Activity

FASN inhibitor C75 is a synthetic, slow-binding inhibitor of mammalian **fatty acid synthesis (FASN, FAS)**, binds to and inhibits mammalian FAS and inhibits fatty acid synthesis in human cancer cells (SKBR3 cells ID50=5.0 ug/mL).

FASN inhibitor C75 causes changes in peripheral tissues, including inhibition of hepatic fatty acid synthesis, reduction of fatty liver, diminished adipose tissue mass, and high levels of malonyl-CoA.

FASN inhibitor C75 reduces food consumption and increases both fatty acid oxidation and energy expenditure in DIO mice. FASN inhibitor C75 also sensitizes the efficacy of radiotherapy of prostate carcinoma.

References

Kuhajda FP, et al. *Proc Natl Acad Sci U S A*. 2000 Mar 28;97(7):3450-4.

Gao S, et al. *Proc Natl Acad Sci U S A*. 2003 May 13;100(10):5628-33.

Thupari JN, et al. *Proc Natl Acad Sci U S A*. 2002 Jul 9;99(14):9498-502.

Rae C, et al. *Radiat Res*. 2015 Nov;184(5):482-93.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com