C75

Fatty acid synthase inhibitor

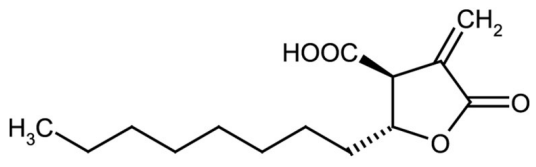
Inhibitor of fatty acid synthase (FAS) reducing food intake and body weight in mice. Exhibits irreversible slow-binding biphasic inactivation of fatty acid synthase. Downregulates neuropeptide Y and Agouti-related protein expression. Has been proposed to activate CPT-1 activity in liver and adipose tissue, leading to increased fatty acid oxidation and energy production. Shows significant *in vivo* antitumor activity in human breast cancer cells. Suppresses DNA replication and induces apoptosis. FAS inhibition by C75 leads to a dramatic accumulation of the CDK inhibitor p27KIP1 from cytosol to cell nuclei.

Citations: 26 View Online »

Ordering Information Order Online »

ALX-270-286-M001	1mg
ALX-270-286-M005	5mg

Manuals, SDS & CofA View Online »


CH2
HOOC
O
H3C
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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	trans-4-Carboxy-5-octyl-3-methylene-butyrolactone
Appearance	White to off-white solid.
CAS	191282-48-1
Couple Target	Fatty acid synthase
Couple Type	Inhibitor
Formula	$C_{14}H_{22}O_4$
MW	254.3
Purity	≥98%
Solubility	Soluble in dichloromethane, methanol or DMSO.
Source	Synthetic.

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