

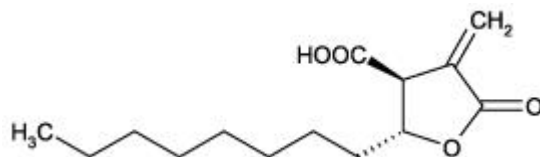
FAS Inhibitor, C75

[trans-4-carboxy-5-octyl-3-methylene-butyrolactone]

CATALOG #: 1547-1

AMOUNT: 1 mg

LOT #: _____



CAS NUMBER: 191282-48-1

MOLECULAR FORMULA: C₁₄H₂₂O₄

MOLECULAR WEIGHT: 254.3

PURITY: ≥98%

SOLUBILITY: Soluble in DMSO, dichloromethane or methanol

STORAGE CONDITIONS: Store at -20°C. Protect from light

DESCRIPTION: Inhibitor of fatty acid synthase (FAS) reducing food intake and body weight in mice. Exhibits irreversible slow-binding biphasic inactivation of FAS. Down regulates 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 dramatic accumulation of the CDK inhibitor p27KIP1 from cytosol to cell nuclei.

FOR RESEARCH USE ONLY! Not to be used on humans.**RELATED PRODUCTS:**

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies