

Certificate of Analysis

Product Name: G 28UCM

Catalog No.: 5446

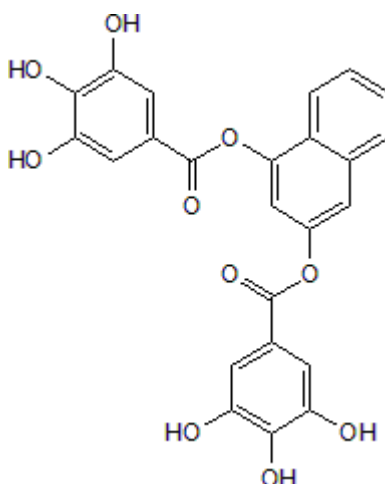
Batch No.: 1

CAS Number: 1094451-90-7

IUPAC Name: 3-(3,4,5-Trihydroxybenzoyloxy)naphthalen-1-yl 3,4,5-trihydroxybenzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{16}O_{10} \cdot \frac{3}{4}H_2O$
Batch Molecular Weight: 477.89
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.47$ (DCM/MeOH 20%)
HPLC: Shows 98.9% purity
 1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.32	3.69	
Found	59.99	3.68	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

FASN inhibitor. Inhibits breast cancer cell proliferation in vitro (IC₅₀ values are 21 - 79 µM), including cell lines resistant to anti-HER2 therapies. Blocks HER2 signaling and induces apoptosis. Inhibits growth of breast cancer xenografts in mice without causing anorexia.

Physical and Chemical Properties:

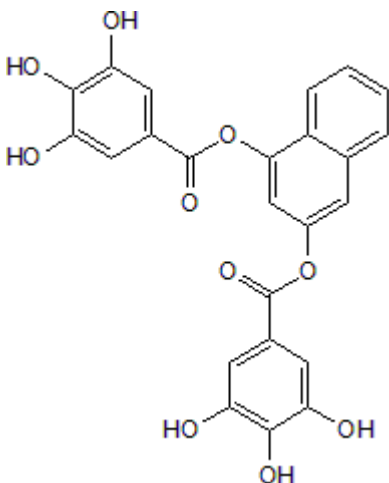
Batch Molecular Formula: C₂₄H₁₆O₁₀·³/₄H₂O

Batch Molecular Weight: 477.89

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Puig et al (2009) Novel inhibitors of fatty acid synthase with anticancer activity. Clin.Cancer Res. **15** 7608. PMID: 20008854.

Puig et al (2011) A novel inhibitor of fatty acid synthase shows activity against HER2+ breast cancer xenografts and is active in anti-HER2 drug-resistant cell lines. Breast Cancer Res. **13** R131. PMID: 22177475 .

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