

Certificate of Analysis

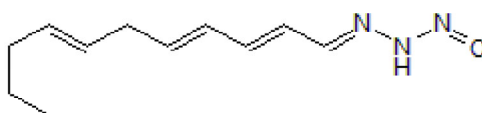
www.tocris.com

Product Name: Triacsin C
CAS Number: 76896-80-5
IUPAC Name: (2E,4E,7E)-2,4,7-Undecatrienal nitrosohydrazone

Catalog No.: 2472 **Batch No.:** 9
EC Number: 616-408-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₇N₃O
Batch Molecular Weight: 207.27
Physical Appearance: Dark yellow solid
Solubility: DMSO to 5 mg/ml
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

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

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IUPAC Name: (2E,4E,7E)-2,4,7-Undecatrienal nitrosohydrazone

Description:

Triacsin C is an inhibitor of acyl-CoA synthetase. Inhibits lipid synthesis and cell proliferation in Raji lymphoma cells. Induces apoptosis in cancer cell lines and inhibits human lung cancer cell xenograft tumor growth in mice.

Physical and Chemical Properties:

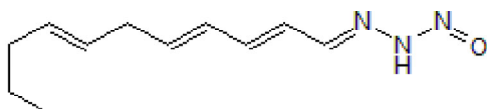
Batch Molecular Formula: C₁₁H₁₇N₃O

Batch Molecular Weight: 207.27

Physical Appearance: Dark yellow solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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 5 mg/ml

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Mashima et al (2005) p53-defective tumors with a functional apoptosome-mediated pathway: a new therapeutic target. *J.Natl.Cancer.Inst.* **97** 765. PMID: 15900046.

Tomoda et al (1991) Evidence for an essential role of long chain acyl-CoA synthetase in animal cell proliferation. Inhibition of long chain acyl-CoA synthetase by triacsins caused inhibition of Raji cell proliferation. *J.Biol.Chem.* **266** 4214. PMID: 1999415.

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