bio-techne
TOCRIS

Print Date: Mar 6th 2025

Certificate of Analysis

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Product Name: **SR 11302** **Catalog No.: 2476** **Batch No.: 8**

CAS Number: 160162-42-5

IUPAC Name: (*E*,*E*,*Z*,*E*)-3-Methyl-7-(4-methylphenyl)-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{26}H_{32}O_2$

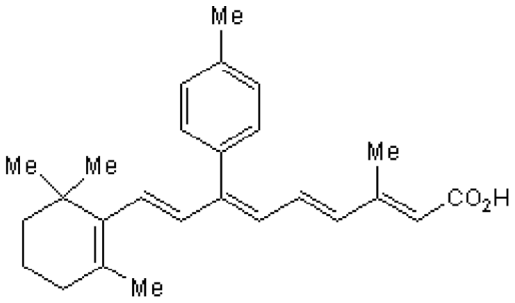
Batch Molecular Weight: 376.54

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	82.94	8.57	0
Found	81.97	8.64	0

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Description:

SR 11302 is an inhibitor of activator protein-1 (AP-1) transcription factor activity that displays antitumor effects in vivo. Does not activate transcription from the retinoic acid response element (RARE) and displays no activity at retinoic acid receptors (EC_{50} > 1 μM for RARα, RARβ, RARγ and RXRα).

Physical and Chemical Properties:

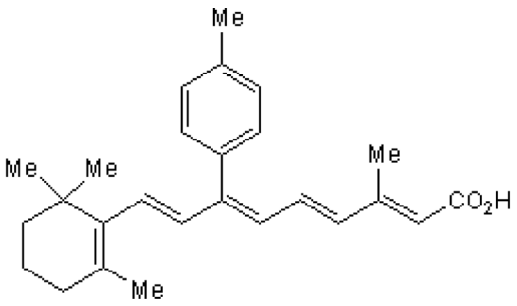
Batch Molecular Formula: $C_{26}H_{32}O_2$

Batch Molecular Weight: 376.54

Physical Appearance: Yellow solid

Minimum Purity: ≥95%

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 10 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. *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:

Shiohara *et al* (1999) Effects of novel RAR- and RXR-selective retinoids on myeloid leukemic proliferation and differentiation in vitro. Blood ***93*** 2057. PMID: 10068679.

Huang *et al* (1997) Blocking activator protein-1 activity, but not activating retinoic acid response element, is required for the antitumor promotion effect of retinoic acid. Proc.Natl.Acad.Sci.USA ***94*** 5826.

Fanjul *et al* (1994) A new class of retinoids with selective inhibition of AP-1 inhibits proliferation. Nature ***372*** 107. PMID: 7969403.

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