Print Date: Sep 29th 2022

Certificate of Analysis

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Product Name: **SR 11237** **Catalog No.: 3411** **Batch No.: 4**

CAS Number: 146670-40-8

IUPAC Name: 4-[2-(5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-1,3-dioxolan-2-yl]-benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{28}O_4$

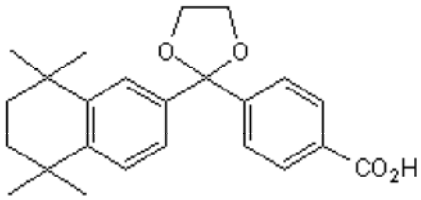
Batch Molecular Weight: 380.48

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.76	7.42	
Found	75.62	7.36	

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Description:

SR 11237 is a pan retinoid X receptor (RXR) agonist that is devoid of any RAR activity.

Physical and Chemical Properties:

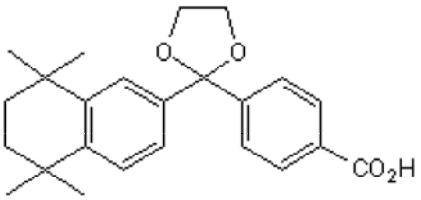
Batch Molecular Formula: $C_{24}H_{28}O_4$

Batch Molecular Weight: 380.48

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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:

Zhou *et al* (2010) Retinoid X receptor agonists inhibit phorbol-12-myristate-13-acetate (PMA)-induced differentiation of monocytic THP-1 cells into macrophages. Mol.Cell.Biochem. ***335*** 283. PMID: 19784811.

Benoit *et al* (1999) RAR-independent RXR signaling induces t(15;17) leukemia cell maturation. EMBO J. ***18*** 7011. PMID: 10601023.

Chiba *et al* (1997) Distinct retinoid X receptor-retinoic acid receptor heterodimers are differentially involved in the control of expression of retinoid target genes in F9 embryonal carcinoma cells. Mol.Cell.Biol. ***17*** 3013. PMID: 9154799.