SZABO SCANDIC

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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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trans-2-Undecenoic acid

Cat. No.: HY-133022

CAS No.: 15790-94-0

Molecular Formula: $C_{11}H_{20}O_2$

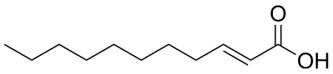
Molecular Weight: 184.28

Target: Others

Pathway: Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (271.33 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.4265 mL	27.1326 mL	54.2653 mL
5 mM	1.0853 mL	5.4265 mL	10.8530 mL
10 mM	0.5427 mL	2.7133 mL	5.4265 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (11.29 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (11.29 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (11.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

trans-2-Undecenoic acid ((E)-2-Undecenoic acid) is an α,β-unsaturated carboxylic acid and is characterized by acid dimers. The corresponding dimers are connected via intermolecular hydrogen bonds of the carboxylic groups C=O···H-O[1].

In Vitro

The crystal packing of trans-2-Undecenoic acid (E)-undec-2-enoic acid) is described by layers of acid dimers parallel to the (0 4 1) plane which are featured by layers of polar headgroups and hydrophobic hydrocarbon chains. The carboxylic group and the following three carbon atoms (C2, C3, C4) of the trans-2-Undecenoic acid (E)-undec-2-enoic acid) molecule lie in one plane, whereas the atoms of the hydrocarbon chain starting from C4 until C11 adopt a nearly fully staggered conformation[1]

	. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sonneck M, et al. Crystal structure of (E)-undec-2-enoic acid. Acta Crystallogr E Crystallogr Commun. 2015 May 28;71(Pt 6):o426-7.

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