

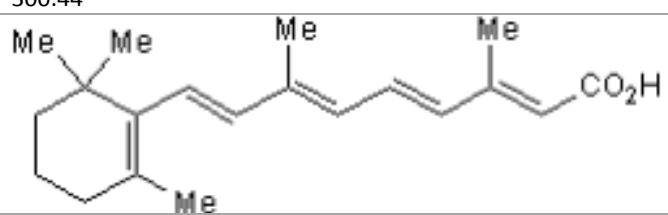
Retinoic acid

SIH-258-50MG

Overview

Product Name	Retinoic acid Small Molecule
Unit Size	50mg
Description	Retinoid RAR agonist
Purity	>98%

Technical Data

Alternative Name(s)	Tretinoin, ATRA
Formula	C ₂₀ H ₂₈ O ₂
CAS#	302-79-4
Molecular Weight	300.44
Chemical Structure	
Solubility	Soluble to 50mM in ethanol and 25mM in DMSO
Source	Synthetic
Appearance	Yellow solid
Storage Conditions	-20°C; 1 year+
Shipping Temperature	Shipped Ambient
SMILES	<chem>CC1=C(C(CCC1)(C)C)/C=C/C(=C/C=C/C(=C/C(=O)O)/C)/C</chem>
Research Area(s)	Apoptosis

Biological Description

Function	Retinoic acid is a metabolite of Vitamin A that mediates the functions of vitamin A required for growth and development. It is generated in a specific region of the embryo during early embryonic development (1). 1. Duester G. (2008) Cell. 134: 921-931.
Product Citations	PubMed ID: N/A

Material Safety Data Sheet

Retinoic acid SIH-258-50MG

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Regulatory Information

Classification: Toxic. May be harmful or fatal if inhaled, swallowed or absorbed through skin.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Risk Phrases:

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R40 - Limited evidence of a carcinogenic effect

R46 - May cause heritable genetic damage

R62 - Possible risk of impaired fertility

Hazard Phrases:

H302-H411

Precautionary Phrases:

P273

Physical Data

This product consists of powder, shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS Number: 302-79-4

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.