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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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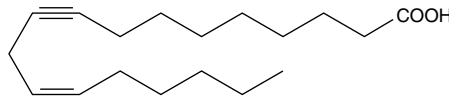
Product Information



9,12-Octadecadienoic Acid

Item No. 90400

CAS Registry No.: 2012-14-8
Synonym: Ro 3-1314
MF: C₁₈H₂₈O₂
FW: 276.4
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A crystalline solid
Misc: Oxygen and light sensitive



Laboratory Procedures

For long term storage, we suggest that 9,12-octadecadienoic acid (Ro 3-1314) be stored as supplied at -20°C. It should be stable for at least one year.

Ro 3-1314 is sparingly soluble in water but freely soluble in organic solvents such as ethanol, methanol, acetone, acetonitrile, or DMSO. The solubility of Ro 3-1314 in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing any biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Organic solvent-free aqueous solutions of Ro 3-1314 can be prepared by directly dissolving the crystalline compound in basic solutions. The solubility of Ro 3-1314 in 0.01 M aqueous Na₂CO₃ is approximately 2 mg/ml. Again, we do not recommend storing the aqueous solutions for more than one day.

Ro 3-1314 is an inhibitor of both cyclooxygenase and lipoxygenase.^{1,2} Ro 3-1314 inhibits ram seminal vesicle cyclooxygenase with a K_i value of 0.6 μM.¹ Inhibition of soybean lipoxygenase was less effective than ram seminal vesicle cyclooxygenase (68% and 96%, respectively, when incubated with 48 μM concentration of Ro 3-1314).²

References

1. Vanderhoek, J.Y. and Lands, W.E.M. Acetylenic inhibitors of sheep vesicular gland oxygenase. *Biochim. Biophys. Acta* **296**, 374-381 (1973).
2. Downing, D.T., Barve, J.A., Gunstone, F.D., *et al.* Structural requirements of acetylenic fatty acids for inhibition of soybean lipoxygenase and prostaglandin synthase. *Biochim. Biophys. Acta* **280**, 343-347 (1972).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90400

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery**.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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