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- Mindermengenzuschlag
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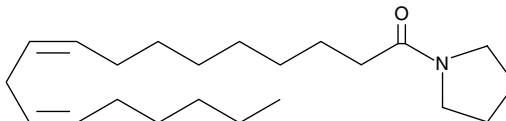
Product Information



Pyrrolidine Linoleamide

Item No. 17539

CAS Registry No.: 3140-51-0
Formal Name: 1-(1-pyrrolidinyl)-9Z,12Z-octadecadien-1-one
MF: C₂₂H₃₉NO
FW: 333.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that pyrrolidine linoleamide be stored as supplied at -20°C. It should be stable for at least one year.

Pyrrolidine linoleamide is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of pyrrolidine linoleamide in ethanol and DMF is approximately 30 mg/ml and approximately 25 mg/ml in DMSO.

Pyrrolidine linoleamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of pyrrolidine linoleamide should be diluted with the aqueous buffer of choice. Pyrrolidine linoleamide has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Linoleic acid (Item No. 90150) is an essential fatty acid and one of the most abundant polyunsaturated fatty acids in the western diet. Pyrrolidine linoleamide is a derivative of the amide of linoleic acid that shows potent antiproliferative activity against an array of cancer cell lines, including human glioma U251 cells.¹ It is greater than 4-fold more effective against cancer cells than non-cancer cells.¹

Reference

1. dos Santos, D.S., Piovesan, L.A., D'Oca, C.R.M., *et al.* Antiproliferative activity of synthetic fatty acid amides from renewable resources. *Bioorg. Med. Chem.* **23(2)**, 340-347 (2015).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17539

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

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