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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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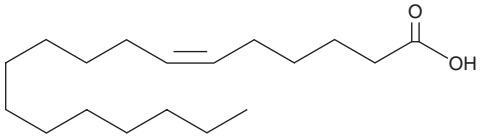
PRODUCT INFORMATION

cis-Petroselinic Acid

Item No. 20024

CAS Registry No.: 593-39-5
Formal Name: 6Z-octadecenoic acid
Synonyms: *cis*-Octadecenoic Acid,
Petroleinic Acid,
5-Heptadecylene-1-carboxylic Acid
MF: $C_{18}H_{34}O_2$
FW: 282.5
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

cis-Petroselinic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the *cis*-petroselinic acid in the solvent of choice. *cis*-Petroselinic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of *cis*-petroselinic acid in DMSO is approximately 10 mg/ml and approximately 25 mg/ml in ethanol and DMF.

cis-Petroselinic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, *cis*-petroselinic acid should first be dissolved in DMF and then diluted with the aqueous buffer of choice. *cis*-Petroselinic acid has a solubility of approximately 0.25 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

cis-Petroselinic acid is a monounsaturated fatty acid and isomer of oleic acid (Item No. 90260) that is a component of plant lipids.[1] Arachidonic acid levels decrease, while linoleic acid levels increase, in the heart, liver, and blood of rats fed a diet containing petroselinic acid.[2] It has been used in a composite membrane as a model of plant partitioning to study the uptake of hydrophobic organic contaminants and polycyclic aromatic hydrocarbons.[1] It has also been used as a substrate for the synthesis of new sophorolipids, which could have biological activities similar to natural biosurfactants.[3]

References

1. Li, X., Zhu, Y., Wu, T., *et al.* Using a novel petroselinic acid embedded cellulose acetate membrane to mimic plant partitioning and *in vivo* uptake of polycyclic aromatic hydrocarbons. *Environ. Sci. Technol.* **44(1)**, 297-301 (2010).
2. Weber, N., Richter, K.D., Schulte, E., *et al.* Petroselinic acid from dietary triacylglycerols reduces the concentration of arachidonic acid in tissue lipids of rats. *J. Nutr.* **125(6)**, 1563-1568 (1995).
3. Delbeke, E.I.P., Everaert, J., Uitterhaegen, E., *et al.* Petroselinic acid purification and its use for the fermentation of new sophorolipids. *AMB Express.* **6(1)**, 28 (2016).

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