

Product Data Sheet

Product Name: 10-Thiastearic Acid

Cat. No.: GC41873

Chemical Properties

Cas. No. 105099-89-6

SMILES CCCCCCCCSCCCCCCCCCC(O)=O

Formula C₁₇H₃₄O₂S

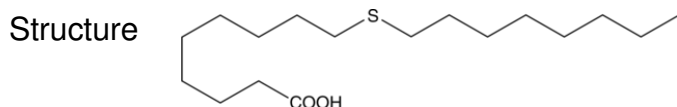
M.Wt 302.5

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 10 mg/ml, PBS (pH 7.2): .15 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.



Background

Heteroatom-substituted fatty acids have been observed to modulate the extension and desaturating of fatty acids, and to influence their distribution within phospholipids pools. 10-Thiastearic acid inhibits desaturation of radiolabeled stearate to oleate in rat hepatocytes and hepatoma cells by more than 80% at a concentration of 25 μM. This activity is associated with a hypolipidemic effect, making this 10-thiastearic acid a useful tool for evaluating new anti-obesity therapeutics.

Caution: Product has not been fully validated for medical applications. For research use only.

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