

Product Data Sheet

Product Name: Dodecanoylcarnitine

Cat. No.: GC31423

Chemical Properties

Cas. No. 25518-54-1

SMILES CCCCCCCCCCCC(O[C@H](CC([O-])=O)C[N+](C)(C)C)=O

Formula $C_{19}H_{37}NO_4$ M.Wt 343.5

Solubility Methanol : 50 mg/mL (145.56 mM) 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.

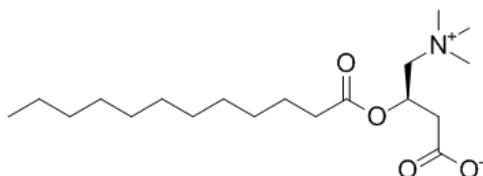
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

Dodecanoylcarnitine is present in fatty acid oxidation disorders such as long-chain acyl CoA dehydrogenase deficiency, carnitine palmitoyltransferase I/II deficiency, and is also associated with celiac disease.

[1]. Shigematsu Y, et al. Selective screening for fatty acid oxidation disorders by tandem mass spectrometry: difficulties in practical discrimination. J Chromatogr B Analyt Technol Biomed Life Sci. 2003 Jul 15;792(1):63-72.

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