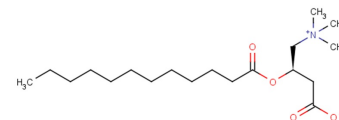


Dodecanoylcarnitine

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 25518-54-1 |
| Formula: | C ₁₉ H ₃₇ NO ₄ |
| Molecular Weight: | 343.5 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|---|
| Description | Dodecanoylcarnitine is present in fatty acid oxidation disorders such as carnitine palmitoyltransferase I/II deficiency, long-chain acyl CoA dehydrogenase deficiency. It is also associated with celiac disease. |
| Targets(IC ₅₀) | Human Endogenous Metabolite: None |

Solubility Information

| | |
|------------|---|
| Solubility | Methanol: 50 mg/mL (145.56 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.911 mL | 14.556 mL | 29.112 mL |
| 5 mM | 0.582 mL | 2.911 mL | 5.822 mL |
| 10 mM | 0.291 mL | 1.456 mL | 2.911 mL |
| 50 mM | 0.058 mL | 0.291 mL | 0.582 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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