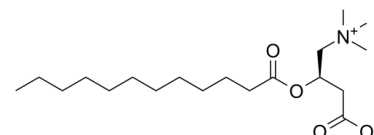


## Data Sheet

<b>Product Name:</b>	Dodecanoylcarnitine
<b>Cat. No.:</b>	CS-0062327
<b>CAS No.:</b>	25518-54-1
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>37</sub> NO <sub>4</sub>
<b>Molecular Weight:</b>	343.50
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	Methanol : 50 mg/mL (145.56 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

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.

### References:

[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.

### CAIndexNames:

1-Propanaminium, 3-carboxy-N,N,N-trimethyl-2-[(1-oxododecyl)oxy]-, inner salt, (2R)-

### SMILES:

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

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

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