

Product Data Sheet

Product Name: D-Carnitine

Cat. No.: GC40661

Chemical Properties

Cas. No. 541-14-0

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

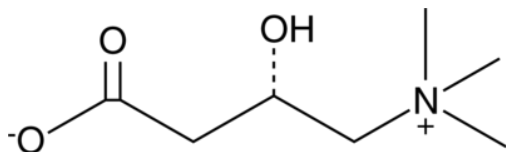
Formula C₇H₁₅NO₃ M.Wt 161.2

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

Structure



Background

L-Carnitine is an essential metabolite that has diverse roles in metabolism, most notably facilitating the transport of long-chain fatty acids into the mitochondrial matrix for β -oxidation. L-Carnitine is obtained from dietary sources or by the metabolism of lysine and methionine. D-Carnitine is an analog of L-carnitine that, in the range of 0.25-1 mM, inhibits the uptake of L-carnitine by cells.

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

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