

## Butyrylcarnitine

## Chemical Properties

CAS No. : 25576-40-3

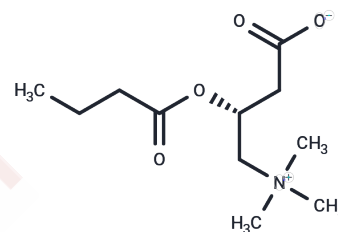
Formula: C<sub>11</sub>H<sub>21</sub>NO<sub>4</sub>

Molecular Weight: 231.29

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Butyrylcarnitine is a plasma metabolite that is an indicator of abnormal metabolism due to disease and is used in the diagnosis of heart failure and pancreatic cysts.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility H<sub>2</sub>O: 50 mg/mL (216.18 mM), Sonication is recommended.  
(< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3236 mL	21.6179 mL	43.2358 mL
5 mM	0.8647 mL	4.3236 mL	8.6472 mL
10 mM	0.4324 mL	2.1618 mL	4.3236 mL
50 mM	0.0865 mL	0.4324 mL	0.8647 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Cheng ML, et al. Metabolic disturbances identified in plasma are associated with outcomes in patients with heart failure: diagnostic and prognostic value of metabolomics. J Am Coll Cardiol. 2015 Apr 21;65(15):1509-20.

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