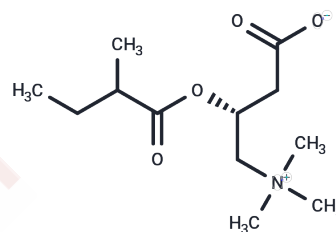


## 2-Methylbutyrylcarnitine

## Chemical Properties

CAS No. :	256928-75-3
Formula:	C <sub>12</sub> H <sub>23</sub> NO <sub>4</sub>
Molecular Weight:	245.32
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	2-Methylbutyrylcarnitine is a fatty acid metabolite primarily present in blood and urine, generated via the pyruvate carboxylation pathway. Its elevated levels in plasma of nonalcoholic steatohepatitis (NASH) subjects enable its use in diagnosing metabolic disorders.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 80 mg/mL (326.1 mM), Sonication is recommended. H <sub>2</sub> O: 100 mg/mL (407.63 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0763 mL	20.3815 mL	40.7631 mL
5 mM	0.8153 mL	4.0763 mL	8.1526 mL
10 mM	0.4076 mL	2.0382 mL	4.0763 mL
50 mM	0.0815 mL	0.4076 mL	0.8153 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

Kalhan SC, et al. Plasma metabolomic profile in nonalcoholic fatty liver disease. *Metabolism*. 2011;60(3):404-413.

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