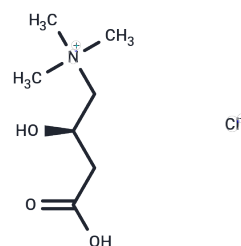


## L-Carnitine hydrochloride

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 6645-46-1                                                |
| Formula:          | C <sub>7</sub> H <sub>16</sub> ClNO <sub>3</sub>         |
| Molecular Weight: | 197.65                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|             |                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Carnitine is a quaternary amine that occurs naturally in most mammalian tissue. Carnitine is present in relatively high concentrations in skeletal muscle and heart where it is involved in regulating energy metabolism. It has also been used to allow the entry of palmitic acid into the mitochondria. |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility Information

|            |                                                                                      |
|------------|--------------------------------------------------------------------------------------|
| Solubility | DMSO: Soluble,<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|--------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.0594 mL | 25.2972 mL | 50.5945 mL |
| 5 mM  | 1.0119 mL | 5.0594 mL  | 10.1189 mL |
| 10 mM | 0.5059 mL | 2.5297 mL  | 5.0594 mL  |
| 50 mM | 0.1012 mL | 0.5059 mL  | 1.0119 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.

### Reference

Nunes V, Niinikoski H. Lysinuric Protein Intolerance. 2006 Dec 21 [updated 2018 Apr 12]. In: Adam MP, Ardinger HH, Pagon RA, Wallace SE, Bean LJH, Stephens K, Amemiya A, editors. GeneReviews<sup>®</sup> [Internet]. Seattle (WA): University

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