

## Arachidonoyl-L-carnitine chloride

## Chemical Properties

CAS No. : 2133455-98-6

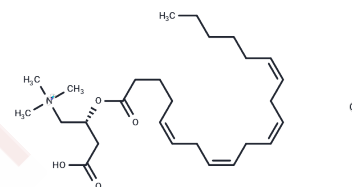
Formula: C<sub>27</sub>H<sub>46</sub>ClNO<sub>4</sub>

Molecular Weight: 484.11

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   | Arachidonoyl-L-carnitine chloride is an endogenous metabolite and acylcarnitine widely used in biochemical experiments and studies of metabolic disorders. |
| Targets(IC50) | Endogenous Metabolite  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | Ethanol: 20 mg/mL (41.31 mM),Sonication is recommended.<br>DMF: 15 mg/mL (30.98 mM),Sonication is recommended.<br>DMSO: 5 mg/mL (10.33 mM),Sonication is recommended.<br>PBS (pH 7.2): 5 mg/mL (10.33 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.0656 mL | 10.3282 mL | 20.6565 mL |
| 5 mM  | 0.4131 mL | 2.0656 mL  | 4.1313 mL  |
| 10 mM | 0.2066 mL | 1.0328 mL  | 2.0656 mL  |
| 50 mM | 0.0413 mL | 0.2066 mL  | 0.4131 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

Osmundsen, H., et al. A role for 2,4-enoyl-CoA reductase in mitochondrial  $\beta$ -oxidation of polyunsaturated fatty acids. Effects of treatment with clofibrate on oxidation of polyunsaturated acylcarnitines by isolated rat liver mitochondria. *Biochemistry Journal* 208(3), 749-757 (1982).

Sampey, B.P., et al. Metabolomic profiling reveals mitochondrial-derived lipid biomarkers that drive obesity-associated inflammation. *PLoS One* 7(6), e38812 (2012).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481