# Tiglyl carnitine

**Cat. No.:** HY-113408

**CAS No.:** 64681-36-3

**Molecular Formula:** $C_{12}H_{21}NO_4$

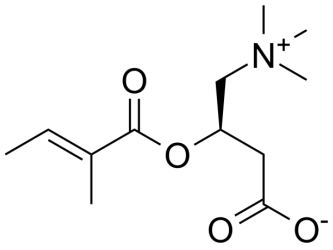
**Molecular Weight:** 243.3

**Target:** Endogenous Metabolite

**Pathway:** Metabolic Enzyme/Protease

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 25 mg/mL (102.75 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 4.1102 mL | 20.5508 mL | 41.1015 mL |
| | 5 mM | 0.8220 mL | 4.1102 mL | 8.2203 mL |
| | 10 mM | 0.4110 mL | 2.0551 mL | 4.1102 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (10.28 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.28 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.28 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Tiglyl carnitine is found to be associated with celiac disease and mitochondrial acetoacetyl-CoA thiolase (T2) deficiency.

**$IC_{50}$ & Target**

Human Endogenous Metabolite

## CUSTOMER VALIDATION

- Immunity. 2021 Aug 10;54(8):1728-1744.e7.

See more customer validations on www.MedChemExpress.com

## REFERENCES

[1]. Fukao T, et al. The mitochondrial acetoacetyl-CoA thiolase (T2) deficiency in Japanese patients: urinary organic acid and blood acylcarnitine profiles under stable conditions have subtle abnormalities in T2-deficient patients with some residual T2 activit



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