# **Screening Libraries**

## Stearoylcarnitine

Cat. No.: HY-113202 CAS No.: 25597-09-5 Molecular Formula:  $C_{25}H_{49}NO_{4}$ Molecular Weight: 427.66

Target: **Endogenous Metabolite** Pathway: Metabolic Enzyme/Protease

Storage: Powder

2 years

3 years

-80°C In solvent 2 years

-20°C

-20°C 1 year

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**Product** Data Sheet

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 7.14 mg/mL (16.70 mM; ultrasonic and warming and heat to 60°C)

H<sub>2</sub>O: < 0.1 mg/mL (ultrasonic) (insoluble)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3383 mL	11.6915 mL	23.3831 mL
	5 mM	0.4677 mL	2.3383 mL	4.6766 mL
	10 mM	0.2338 mL	1.1692 mL	2.3383 mL

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

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 50 mg/mL (116.92 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.85 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.85 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.85 mM); Clear solution

#### **BIOLOGICAL ACTIVITY**

Description Stearoylcarnitine, a fatty ester lipid molecule, is a human endogenous metabolite. Stearoylcarnitine acts as a metabolomics biomarker for early-onset-preeclampsia and late-onset-preeclampsia<sup>[1]</sup>.

IC<sub>50</sub> & Target Human Endogenous Metabolite

### **CUSTOMER VALIDATION**

• SSRN. 2023 Dec 20.

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#### **REFERENCES**

[1]. Maria P H Koster, et al. First-Trimester Serum Acylcarnitine Levels to Predict Preeclampsia: A Metabolomics Approach. Dis Markers. 2015;2015:857108.

Caution: Product has not been fully validated for medical applications. For research use only.

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