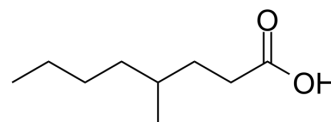


## 4-Methyloctanoic acid

|                    |   |       |          |
|--------------------|---|-------|----------|
| Cat. No.:          | HY-W010178                                    |       |          |
| CAS No.:           | 54947-74-9                                    |       |          |
| Molecular Formula: | C <sub>9</sub> H <sub>18</sub> O <sub>2</sub> |       |          |
| Molecular Weight:  | 158.24  |       |          |
| Target:            | Others  |       |          |
| Pathway:           | Others  |       |          |
| Storage:           | Pure form                                     | -20°C | 3 years  |
|                    |   | 4°C   | 2 years  |
|                    | In solvent                                    | -80°C | 6 months |
|                    |   | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (631.95 mM; Need ultrasonic)

| Concentration             | Solvent | Mass      |            |            |
|---------------------------|---------|-----------|------------|------------|
|                           |         | 1 mg      | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM    | 6.3195 mL | 31.5976 mL | 63.1951 mL |
|                           | 5 mM    | 1.2639 mL | 6.3195 mL  | 12.6390 mL |
|                           | 10 mM   | 0.6320 mL | 3.1598 mL  | 6.3195 mL  |

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (15.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (15.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (15.80 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

4-Methyloctanoic acid is a natural compound mainly responsible for the characteristic goaty sheepy flavour of sheep and goat milk<sup>[1]</sup>.

### REFERENCES

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

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