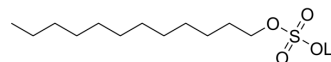


## Lithium dodecyl sulfate

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-W099535   |       |          |
| CAS No.:           | 2044-56-6  |       |          |
| Molecular Formula: | C <sub>12</sub> H <sub>25</sub> LiO <sub>4</sub> S |       |          |
| Molecular Weight:  | 272.33   |       |          |
| Target:            | Biochemical Assay Reagents                         |       |          |
| Pathway:           | Others   |       |          |
| Storage:           | Powder   | -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 (367.20 mM; Need ultrasonic)

| Concentration             | Solvent | Mass      |            |            |
|---------------------------|---------|-----------|------------|------------|
|                           |         | 1 mg      | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM    | 3.6720 mL | 18.3601 mL | 36.7202 mL |
|                           | 5 mM    | 0.7344 mL | 3.6720 mL  | 7.3440 mL  |
|                           | 10 mM   | 0.3672 mL | 1.8360 mL  | 3.6720 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 (9.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (9.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (9.18 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Lithium dodecyl sulfate is an anionic detergent and surfactant that can be used in place of SDS for electrophoresis under low temperatures. Lithium dodecyl sulfate can be used for synthesis of nanomaterials and chromatography<sup>[1]</sup>.

### REFERENCES

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[1]. Delepelaire P, et, al. Lithium dodecyl sulfate/polyacrylamide gel electrophoresis of thylakoid membranes at 4 degrees C: Characterizations of two additional chlorophyll a-protein complexes. Proc Natl Acad Sci U S A. 1979 Jan;76(1):111-5.

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

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