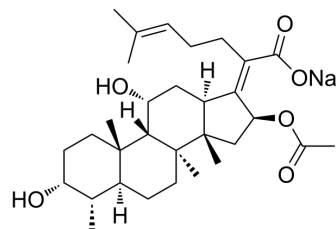


## Fusidic acid sodium salt

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-B1350A  |
| CAS No.:           | 751-94-0   |
| Molecular Formula: | C <sub>31</sub> H <sub>47</sub> NaO <sub>6</sub>   |
| Molecular Weight:  | 538.69   |
| Target:            | Bacterial; Antibiotic  |
| Pathway:           | Anti-infection   |
| Storage:           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 100 mg/mL (185.64 mM)  
 DMSO : ≥ 100 mg/mL (185.64 mM)  
 \* "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent Concentration | Mass      |           |            |
|---------------------------|-----------------------|-----------|-----------|------------|
|                           |                       | 1 mg      | 5 mg      | 10 mg      |
|                           | 1 mM                  | 1.8564 mL | 9.2818 mL | 18.5636 mL |
|                           | 5 mM                  | 0.3713 mL | 1.8564 mL | 3.7127 mL  |
|                           | 10 mM                 | 0.1856 mL | 0.9282 mL | 1.8564 mL  |

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (185.64 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Fusidic acid sodium salt (Sodium fusidate), a bacteriostatic antibiotic produced from the *Fusidium coccineum* fungus, belongs to the class of steroids. Fusidic acid sodium salt has no corticosteroid effects. Fusidic acid sodium salt inhibits the growth of bacteria by preventing the release of translation elongation factor G (EF-G) from the ribosome<sup>[1][2]</sup>.

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## CUSTOMER VALIDATION

- Adv Sci (Weinh). 2023 Jun 29;e2301753.
- Cell Rep Med. 2023 May 24;101061.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

- [1]. Curbete MM, et al. A Critical Review of the Properties of Fusidic Acid and Analytical Methods for Its Determination. Crit Rev Anal Chem. 2016;46(4):352-360.
- [2]. Payne AJ, et al. Fusidic acid is an effective treatment against *Toxoplasma gondii* and *Listeria monocytogenes* in vitro, but not in mice. Parasitol Res. 2013;112(11):3859-3863.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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