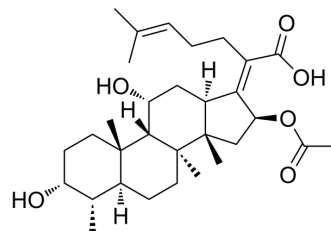


## Fusidic acid

Cat. No.:	HY-B1350
CAS No.:	6990-06-3
Molecular Formula:	C <sub>31</sub> H <sub>48</sub> O <sub>6</sub>
Molecular Weight:	516.71
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (193.53 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.9353 mL	9.6766 mL	19.3532 mL
				5 mM	0.3871 mL	1.9353 mL	3.8706 mL
10 mM				0.1935 mL	0.9677 mL	1.9353 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 (4.84 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Fusidic acid (Fusidate) a bacteriostatic antibiotic produced from the <i>Fusidium coccineum</i> fungus, belongs to the class of steroids. Fusidic acid has no corticosteroid effects. Fusidic acid inhibits the growth of bacteria by preventing the release of translation elongation factor G (EF-G) from the ribosome <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Bacterial <sup>[1][2][3]</sup>

### CUSTOMER VALIDATION

- Adv Sci (Weinh). 2023 Jun 29;e2301753.

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- Cell Rep Med. 2023 May 24;101061.

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

## REFERENCES

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- [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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