

## Fengycin

## Chemical Properties

CAS No. :	102577-03-7
Formula:	C72H110N12O20
Molecular Weight:	1463.71
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Fengycin

## Biological Description

Description	Fengycin (fengmycin), a cyclic lipopeptide produced by <i>Bacillus subtilis</i> , is a biosurfactant with antifungal and biodegradable properties.
Targets(IC50)	Antibiotic, Antifungal
In vitro	Fengycins are cyclic lipopeptides produced by <i>Bacillus</i> species that have potent antifungal properties but are chemically unstable.[2]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6832 mL	3.416 mL	6.832 mL
5 mM	0.1366 mL	0.6832 mL	1.3664 mL
10 mM	0.0683 mL	0.3416 mL	0.6832 mL
50 mM	0.0137 mL	0.0683 mL	0.1366 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Sreyoshi Sur, et al. Selectivity and Mechanism of Fengycin, an Antimicrobial Lipopeptide, from Molecular Dynamics. *J Phys Chem B*. 2018 Mar 1;122(8):2219-2226.
- Gimenez D, et al. Fengycin A Analogues with Enhanced Chemical Stability and Antifungal Properties. *Org Lett*. 2021 Jun 18;23(12):4672-4676.

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