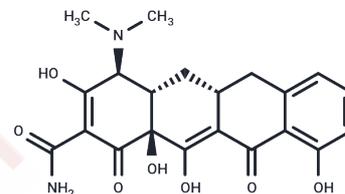


## Sancycline

## Chemical Properties

CAS No. :	808-26-4
Formula:	C <sub>21</sub> H <sub>22</sub> N <sub>2</sub> O <sub>7</sub>
Molecular Weight:	414.41
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Sancycline is a semisynthetic tetracycline that inhibits protein translation by reversibly binding to the 30S ribosomal subunit and by blocking the entry of aminoacyl-tRNA into the ribosomal A site.
Targets(IC50)	Antibacterial

## Solubility Information

Solubility	DMSO: 80 mg/mL (193.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4131 mL	12.0653 mL	24.1307 mL
5 mM	0.4826 mL	2.4131 mL	4.8261 mL
10 mM	0.2413 mL	1.2065 mL	2.4131 mL
50 mM	0.0483 mL	0.2413 mL	0.4826 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.

## Reference

- Goenka S, et al. Comparative study of doxycycline, sancycline, and 4-dedimethylamino sancycline (CMT-3) on epidermal melanogenesis. *Arch Dermatol Res.* 2023 Mar;315(2):249-257.
- Li G, et al. A brief overview of classical natural product drug synthesis and bioactivity[J]. *Organic Chemistry Frontiers*, 2022, 9(2): 517-571.
- Gordon MK, et al. Doxycycline hydrogels as a potential therapy for ocular vesicant injury. *J Ocul Pharmacol Ther.* 2010 Oct;26(5):407-19.

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