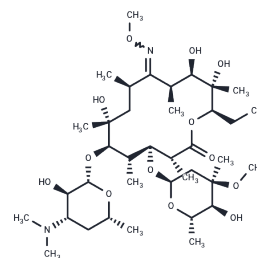


## Lexithromycin

### Chemical Properties

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| CAS No. :         | 53066-26-5                                                     |
| Formula:          | C <sub>38</sub> H <sub>70</sub> N <sub>2</sub> O <sub>13</sub> |
| Molecular Weight: | 762.97                                                         |
| Appearance:       | no data available                                              |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year       |



### Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Lexithromycin is an erythromycin A derivative. It has antibacterial activity.                                                                                                                                                                                                                                                                                                                |
| Targets(IC50) | Antibacterial                                                                                                                                                                                                                                                                                                                                                                                |
| In vitro      | Lexithromycin shows a minimal inhibitory concentration of 0.06 µg/mL against <i>S. pyogenes</i> CN10A and <i>Streptococcus</i> sp. The .minimal inhibitory concentration of 0.25 µg/mL against <i>Staphylococcus aureus</i> Oxford, 0.5 µg/mL against <i>S. aureus</i> Russell and <i>S. aureus</i> T2, 4 µg/mL against <i>S. pyogenes</i> CN10A and <i>Haemophilus influenzae</i> Wy 21[1]. |

### Solubility Information

|            |                                                                                               |
|------------|-----------------------------------------------------------------------------------------------|
| Solubility | DMSO: 50 mg/mL (65.53 mM),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-----------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.3107 mL | 6.5533 mL | 13.1067 mL |
| 5 mM  | 0.2621 mL | 1.3107 mL | 2.6213 mL  |
| 10 mM | 0.1311 mL | 0.6553 mL | 1.3107 mL  |
| 50 mM | 0.0262 mL | 0.1311 mL | 0.2621 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

Hunt E, et al. Erythromycin A 11,12-methylene acetal. J Antibiot (Tokyo). 1988 Nov;41(11):1644-8.

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