

Citromycin

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 37209-30-6 |
| Formula: | C ₁₃ H ₁₀ O ₅ |
| Molecular Weight: | 246.21 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

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|----------------------------|--|
| Description | Citromycin, an antibiotic, has weakly cytotoxic. |
| Targets(IC ₅₀) | Antifection: None |
| In vitro | A new antibiotic, Citromycin, was isolated from cultures of two strains of Streptomyces. It was concluded to be a new water-soluble, basic antibiotic related to the streptothricin-like group. The isolation and purification as well as the physical, chemical and biological properties of the antibiotic are described. The differences of Citromycin to various new streptothricin-like antibiotics are examined and discussed. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 4.062 mL | 20.308 mL | 40.616 mL |
| 5 mM | 0.812 mL | 4.062 mL | 8.123 mL |
| 10 mM | 0.406 mL | 2.031 mL | 4.062 mL |
| 50 mM | 0.081 mL | 0.406 mL | 0.812 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Citromycin, a new antibiotic. I. Isolation and characterization. Journal of Antibiotics, 1969, 22(3):112.

Inhibitors · Natural Compounds · Compound Libraries

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