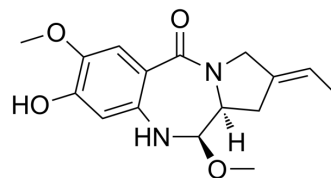


## Tomaymycin

Cat. No.:	HY-N10174
CAS No.:	35050-55-6
Molecular Formula:	C <sub>16</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	304.34
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Tomaymycin is an antitumor antibiotic. Tomaymycin has antimicrobial activity against Grampositive bacteria <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Antibiotic <sup>[1][2]</sup>
In Vivo	Tomaymycin, an antiphage antibiotic is produced by cultivation of <i>Streptomyces achromogenes</i> var. <i>tomaymyceticus</i> in a lactose-bouillon medium enriched with yeast extract and phosphate salts. The antiphage activity is strong against <i>Escherichia coli</i> T1, T3 phages and <i>Bacillus subtilis</i> M-2, SP-10 phages. The LD <sub>50</sub> (i.p.) of tomaymycin for mice is estimated at 3.0 mg/kg. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. F L Boyd, et al. Characterization of a unique tomaymycin-d(CICGAATTCICG)<sub>2</sub> adduct containing two drug molecules per duplex by NMR, fluorescence, and molecular modeling studies. *Biochemistry*. 1990 Mar 6;29(9):2387-403.
- [2]. K Arima, et al. Studies on tomaymycin, a new antibiotic. I. Isolation and properties of tomaymycin. *J Antibiot (Tokyo)*. 1972 Aug;25(8):437-44.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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