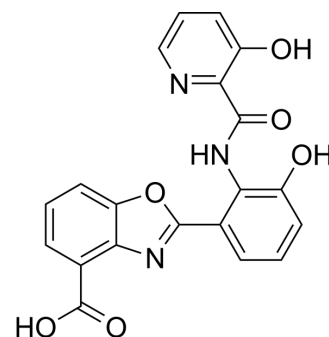


## Antibiotic A-33853

<b>Cat. No.:</b>	HY-14366
<b>CAS No.:</b>	80148-45-4
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>13</sub> N <sub>3</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	391.33
<b>Target:</b>	Antibiotic; Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antibiotic A-33853, an antibiotic, can be isolated from Streptomyces strain. Antibiotic A-33853 has anti-bacterial activity against Staphylococcus aureus, Mycoplasma gallisepticum with MIC values of 2 µg/mL and ≤1.56 µg/mL, respectively <sup>[1]</sup> .
<b>In Vitro</b>	Antibiotic A-33853 shows inhibitory effect against the protozoan organism Eimeria tenella (major causative organism of coccidiosis), and inhibits Trichomonas vaginalis with an MIC value of <0.975 µg/mL <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Antibiotic A-33853 (60 mg/kg; s.c.; single dose) is inactive against Mycoplasma gallisepticum in chicks in vivo <sup>[1]</sup> . Antibiotic A-33853 (70 mg/kg; s.c.; twice doses) is ineffective against S. aureus in mice in vivo <sup>[1]</sup> . Antibiotic A-33853 has an acute toxic dose with a LD <sub>50</sub> value >300 mg/kg (i.p.) on mice model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Michel KH, et al. The discovery, fermentation, isolation, and structure of antibiotic A33853 and its tetraacetyl derivative. J Antibiot (Tokyo). 1984 May;37(5):441-5.
- [2]. In Pursuit of Natural Product Leads: Synthesis and Biological Evaluation of 2-[3-hydroxy-2-[(3-hydroxypyridine-2-carbonyl)amino]phenyl]benzoxazole-4-carboxylic acid (A-33853) and Its Analogues: Discovery of N-(2-Benzoxazol-2-ylphenyl)benzamides as Novel Antileishmanial Chemotypes. J. Med. Chem., 2008, 51 (23), pp 7344-7347

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA