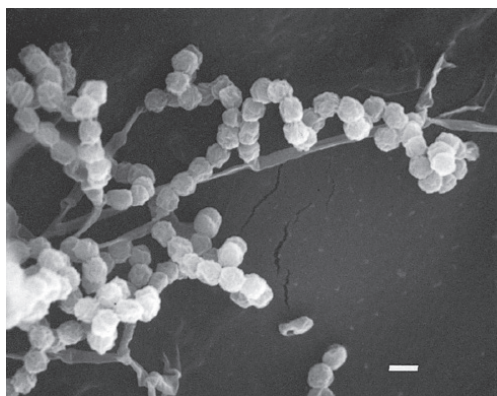


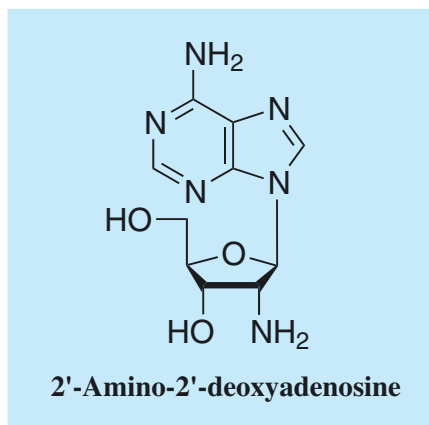
2'-Amino-2'-deoxyadenosine

1. Discovery, producing organism and structure¹⁾

2'-Amino-2'-deoxyadenosine was isolated from the culture broth of *Actinomadura corallina* strain SA-4427^T and identified as an antimycoplasmal antibiotic compound. The first total synthesis of this compound was reported by Chladek *et al*²⁾ (See Appendix-I).



Actinomadura corallina SA-4427^T



2. Physical data¹⁾

White powder. C₁₀H₁₄N₆O₃; mol wt 266.12. Sol. in H₂O, MeOH.

3. Biological activity^{1,3)}

1) Antimicrobial activity¹⁾

Test organism	MIC (μg/ml)
<i>Staphylococcus aureus</i> FDA209P	>100
<i>Bacillus subtilis</i> PCI209	>100
<i>Micrococcus luteus</i> PCI1001	>100
<i>Escherichia coli</i> NIHJ	>100
<i>Pseudomonas aeruginosa</i> P 3	>100
<i>Mycoplasma gallisepticum</i> Kp 13	6.25
<i>Mycoplasma gallisepticum</i> S 6	6.25
<i>Mycoplasma gallisepticum</i> 333p	>100
<i>Mycoplasma pneumoniae</i>	6.25
<i>Acholeplasma laidlawii</i> PG 8	6.25
<i>Acholeplasma laidlawii</i> Bm 1	>100

2) 2'-Amino-2'-deoxyadenosine showed antiviral activity against the measles virus³⁾.

4. References

- [176] Y. Iwai *et al.*, *J. Antibiot.* **32**, 1367-1369 (1979)
- G. Butke *et al.*, *J. Carbohydr., Nucleosides, Nucleotides* **7**, 63-75 (1980)
- [204] F. Taguchi *et al.*, *J. Antibiot.* **34**, 313-316 (1981)