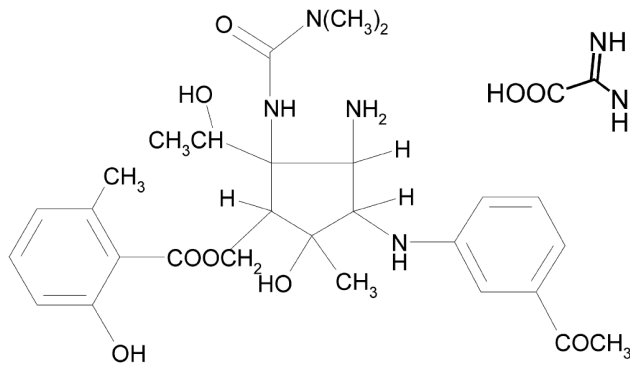
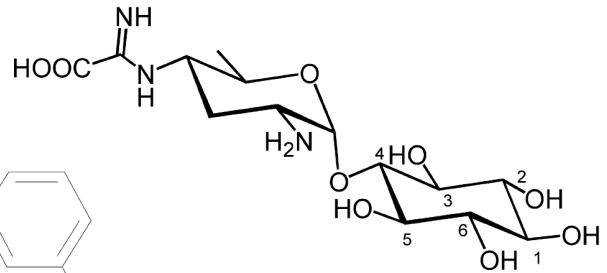


## Appendix – chemical formulas of antibiotics

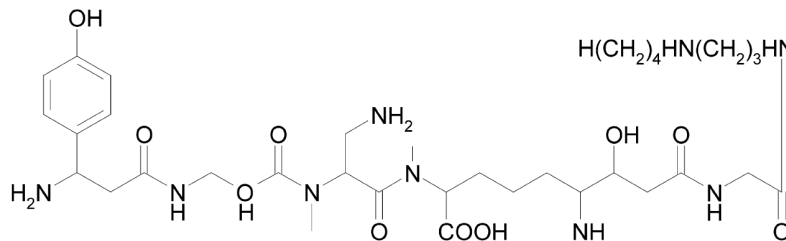
Pactamycin



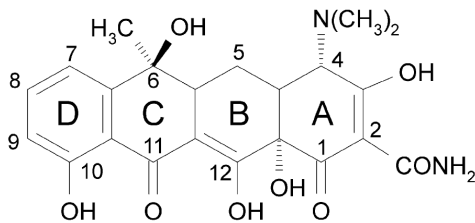
Kasugamycin



Edeine

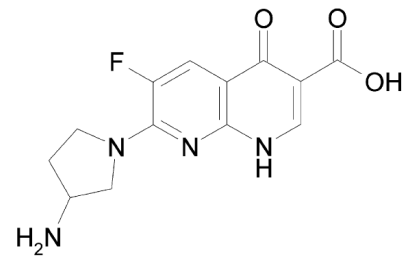


Tetracycline (1953)

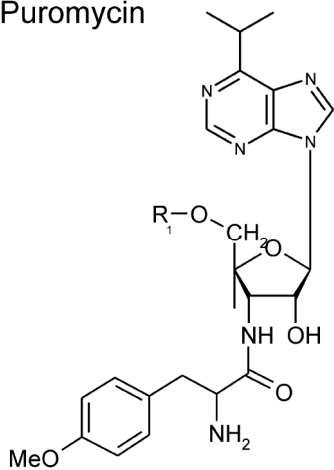


NRI

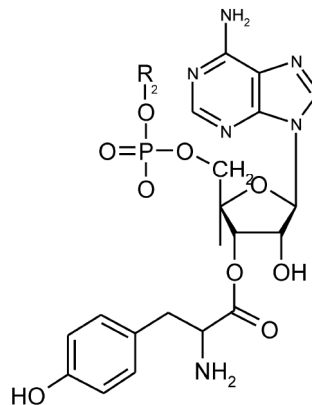
A-72310



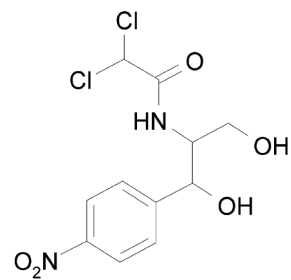
Puromycin



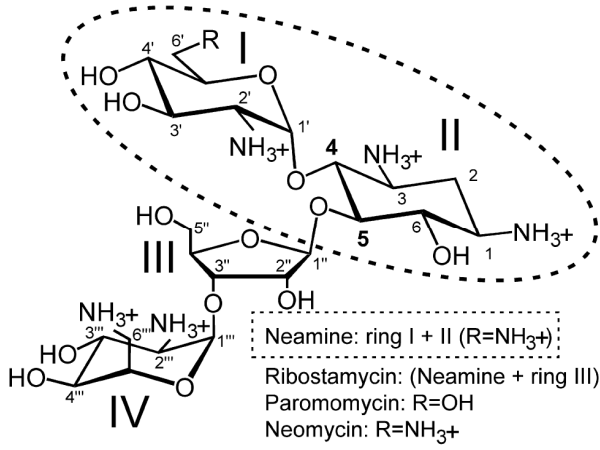
tRNA-A76



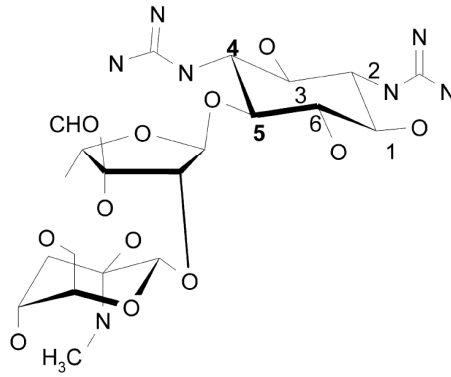
Chloramphenicol



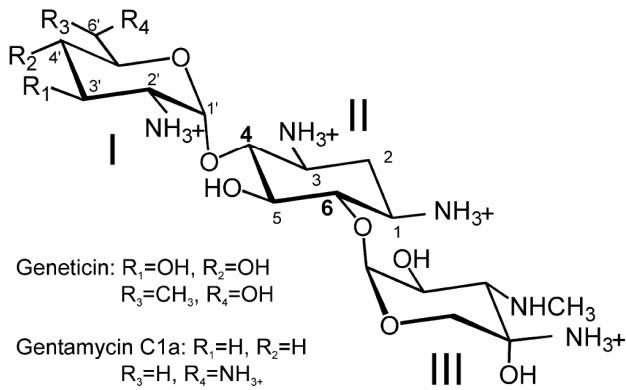
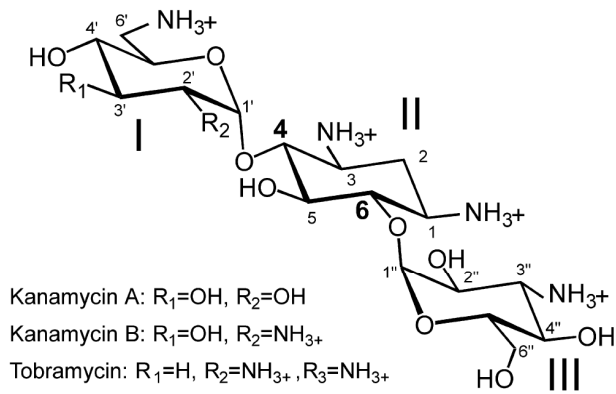
Aminoglycosides: 4,5-2-DOS



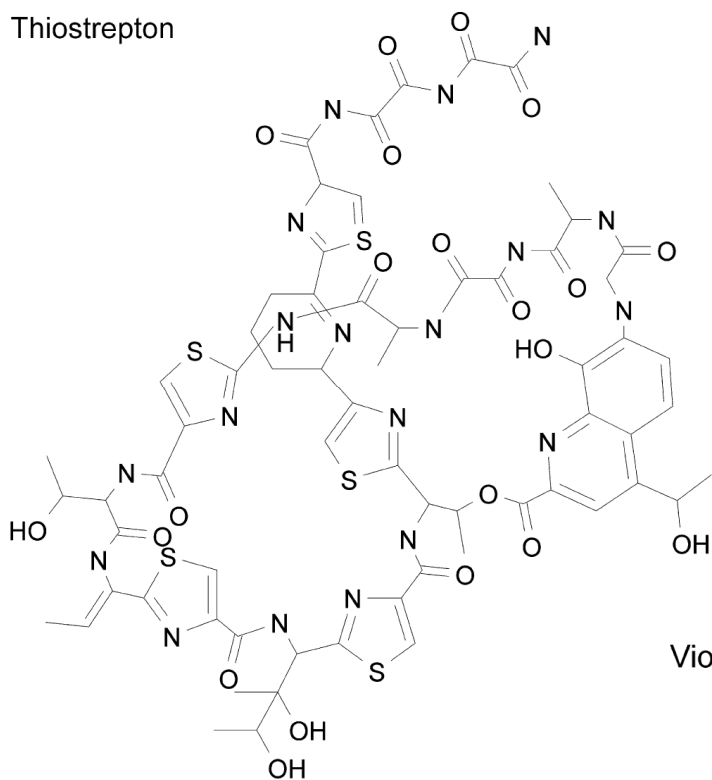
Streptomycin



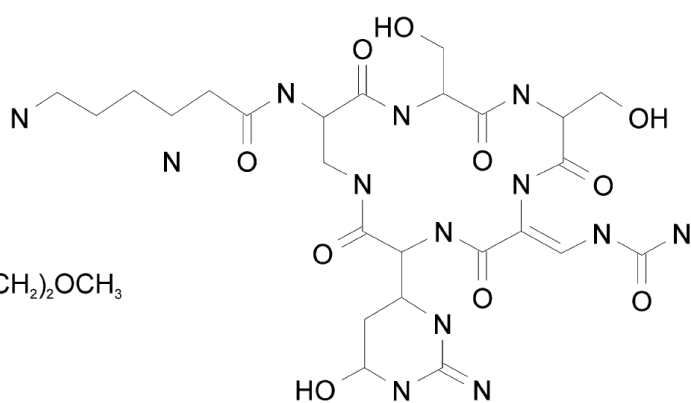
Aminoglycosides: 4,6-2-DOS



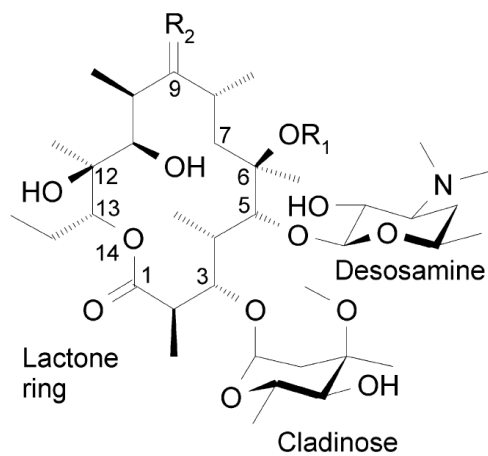
Thiostrepton



Viomycin



Erythromycin:  $R_1 = H, R_2 = O$   
 Clarithromycin:  $R_1 = CH_3, R_2 = O$   
 Roxithromycin:  $R_1 = H, R_2 = NOCH_2O(CH_2)_2OCH_3$



6.