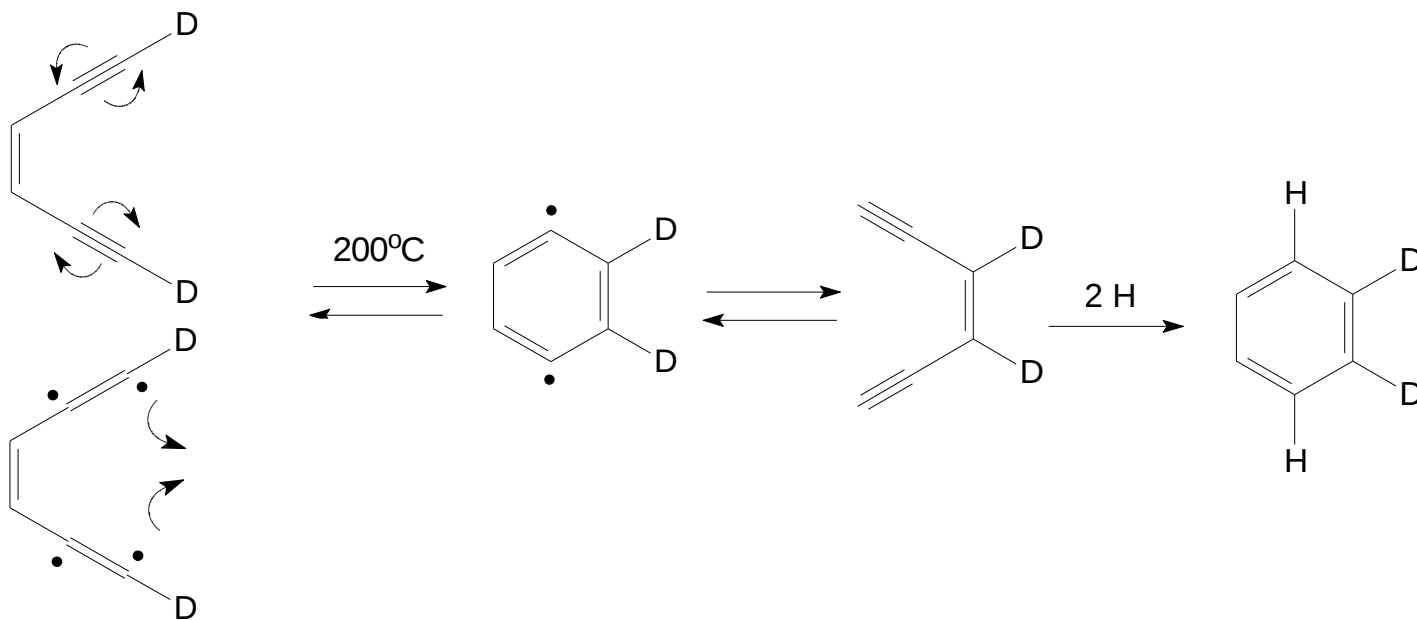


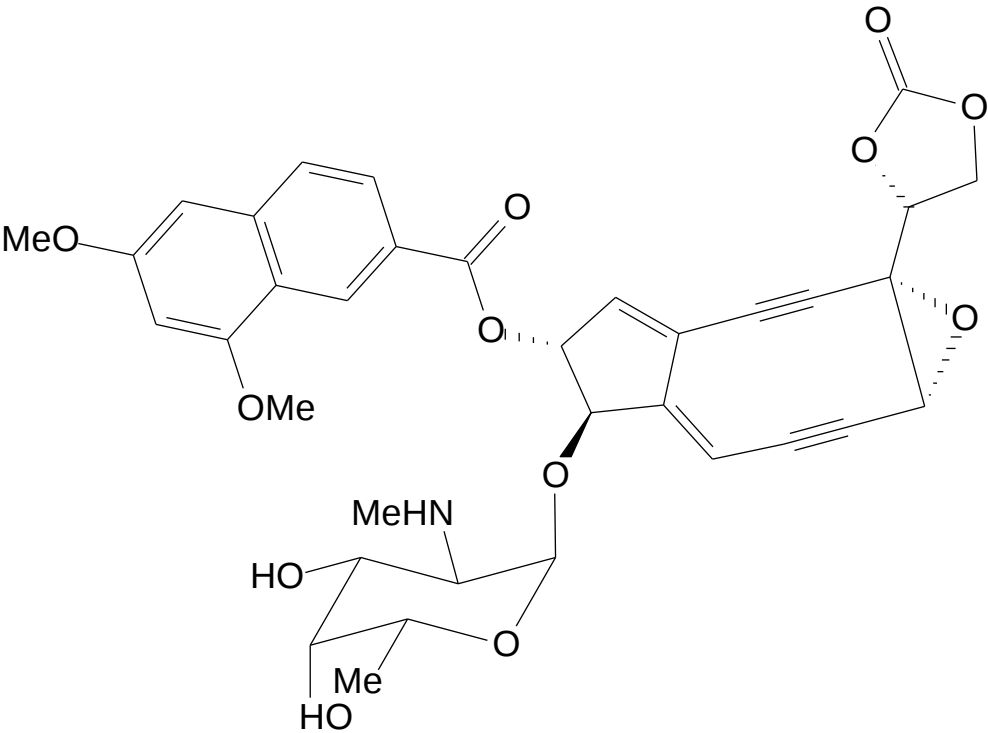
# Μόρια που προκαλούν σχάση της αλυσίδας του DNA

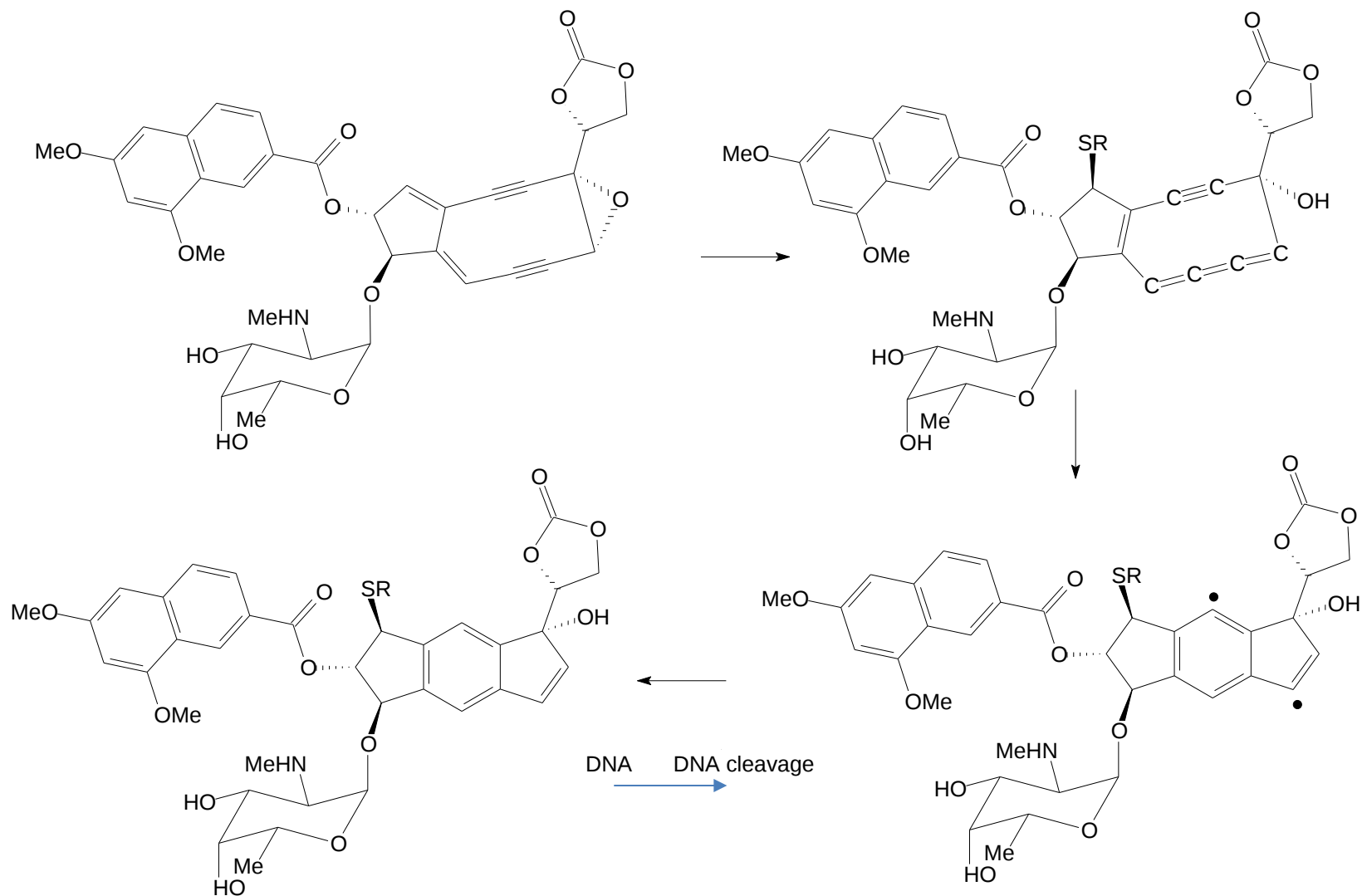
## Bergman cycloaromatization



Μόρια που προκαλούν σχάση της αλυσίδας του DNA - enediynes

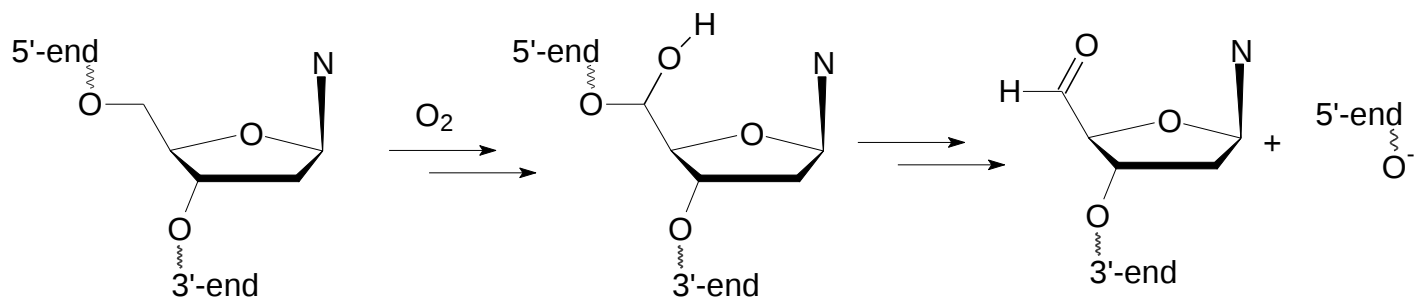
neocarzinostatin



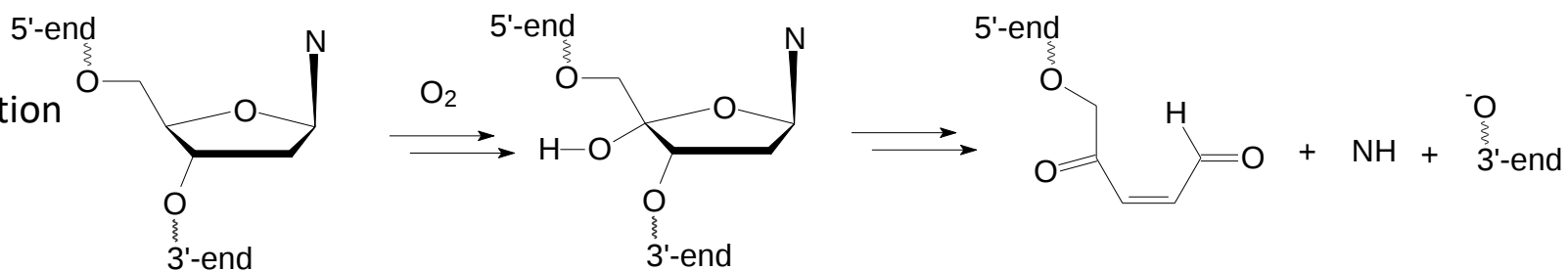


single strand DNA cleavage due to C-5' H abstraction (80%) and C-4' or C-1' abstraction (20%)

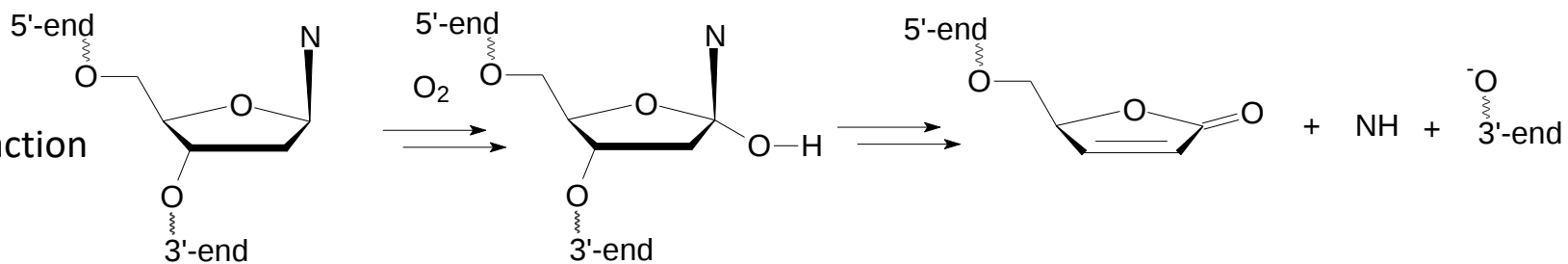
C-5' H abstraction



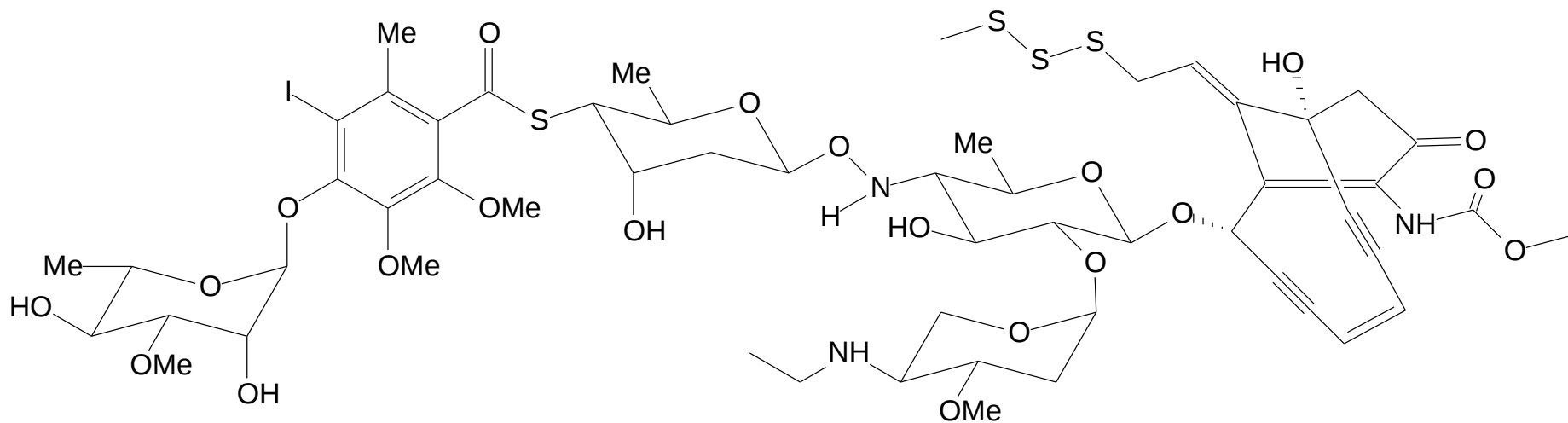
C-4' H abstraction



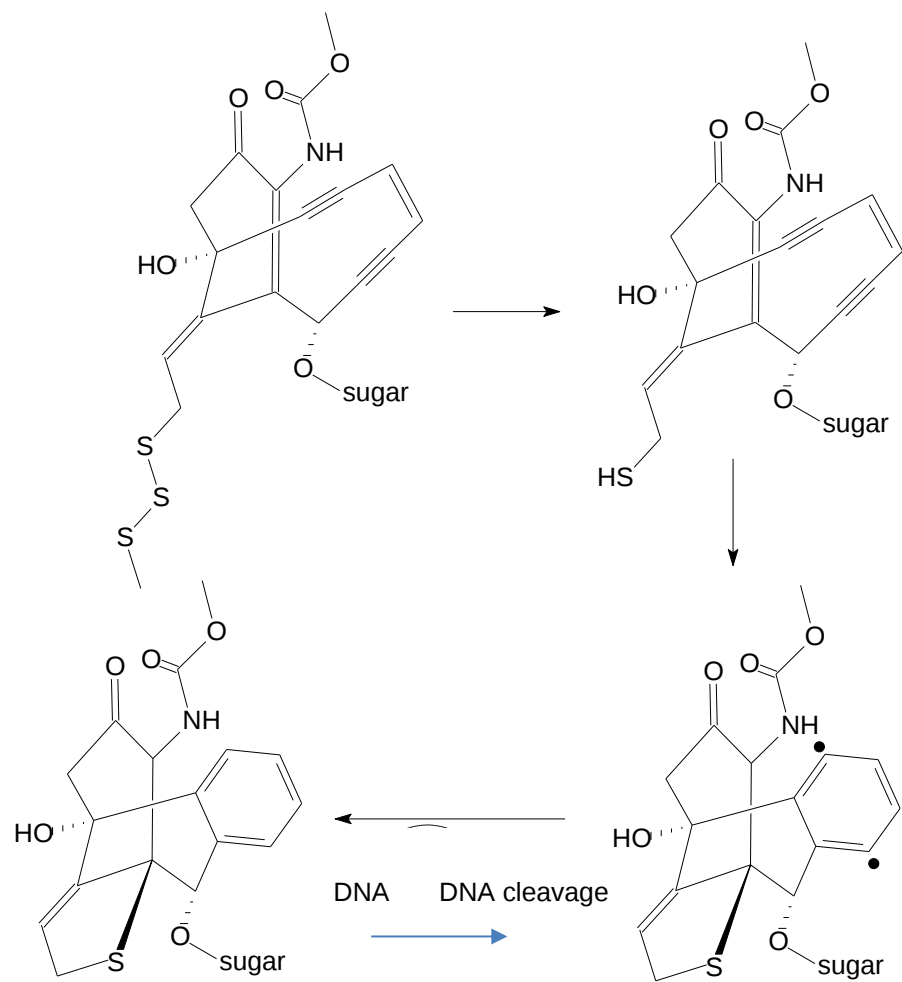
C-1' H abstraction



## calicheamicins ( $\gamma_1^I$ )



Specific double strand DNA cleavage at the C-5' of C and the C-4' of the nucleotide 3 bases apart on the complementary strand (towards 3'-side)

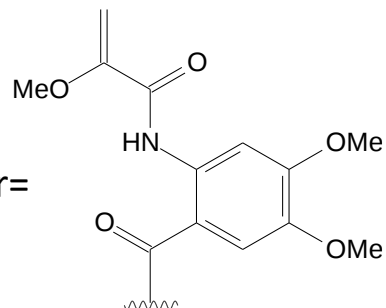


$n=3$  or  $4$

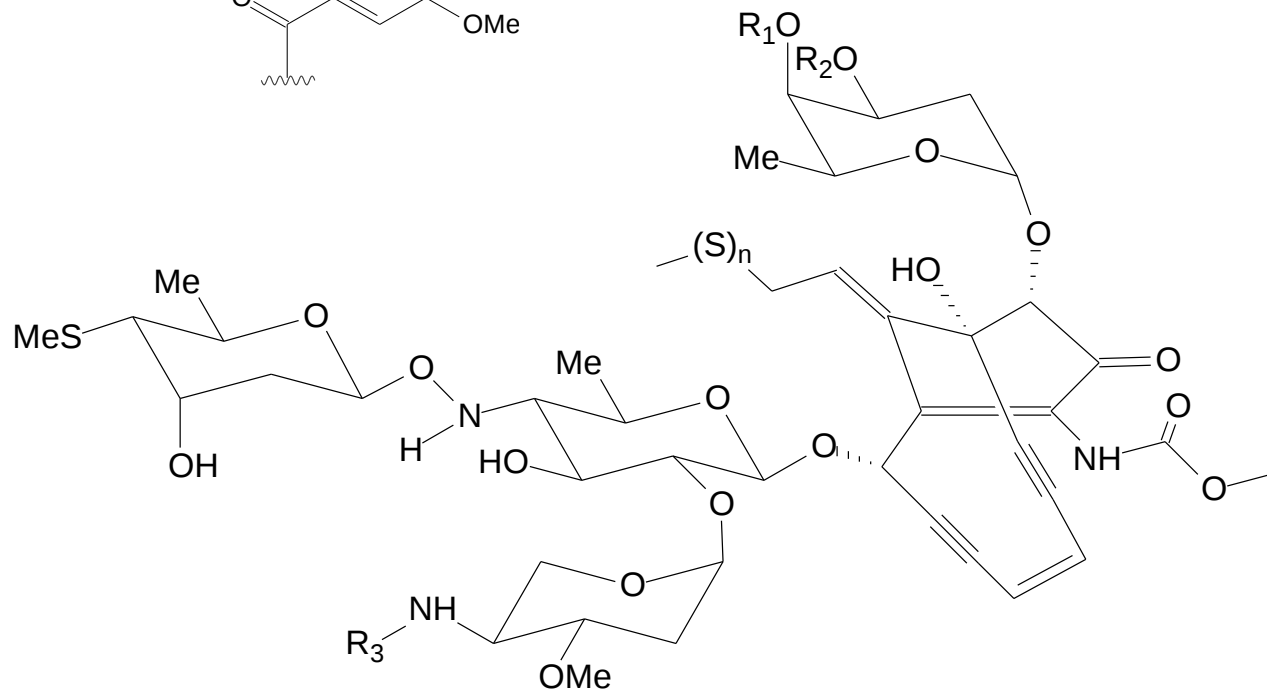
$R_1, R_2 = \text{H or Ar}$

$R_3 = \text{Me, Et, isoPr}$

Esperamicin  $A_1$ . Ar=

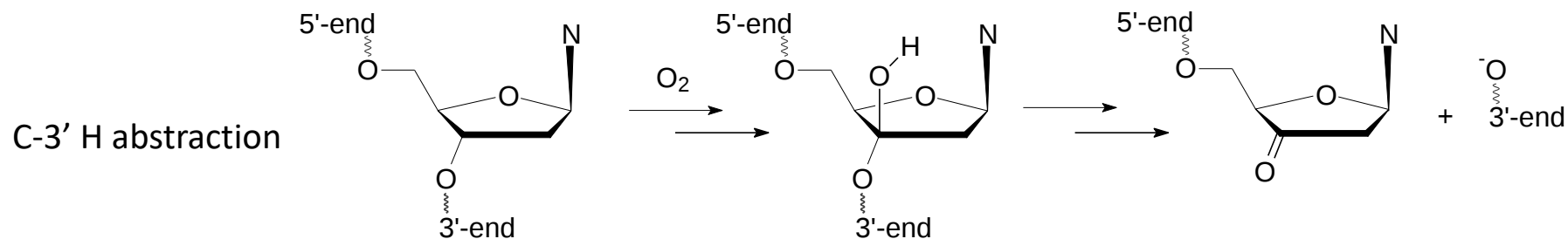
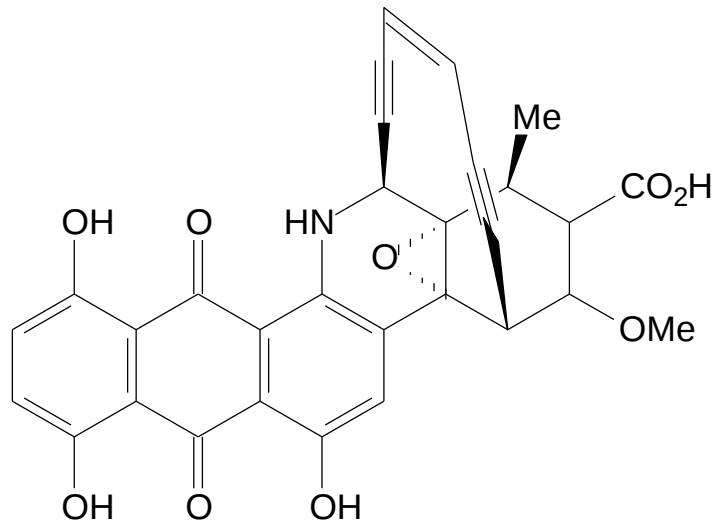


esperamicins

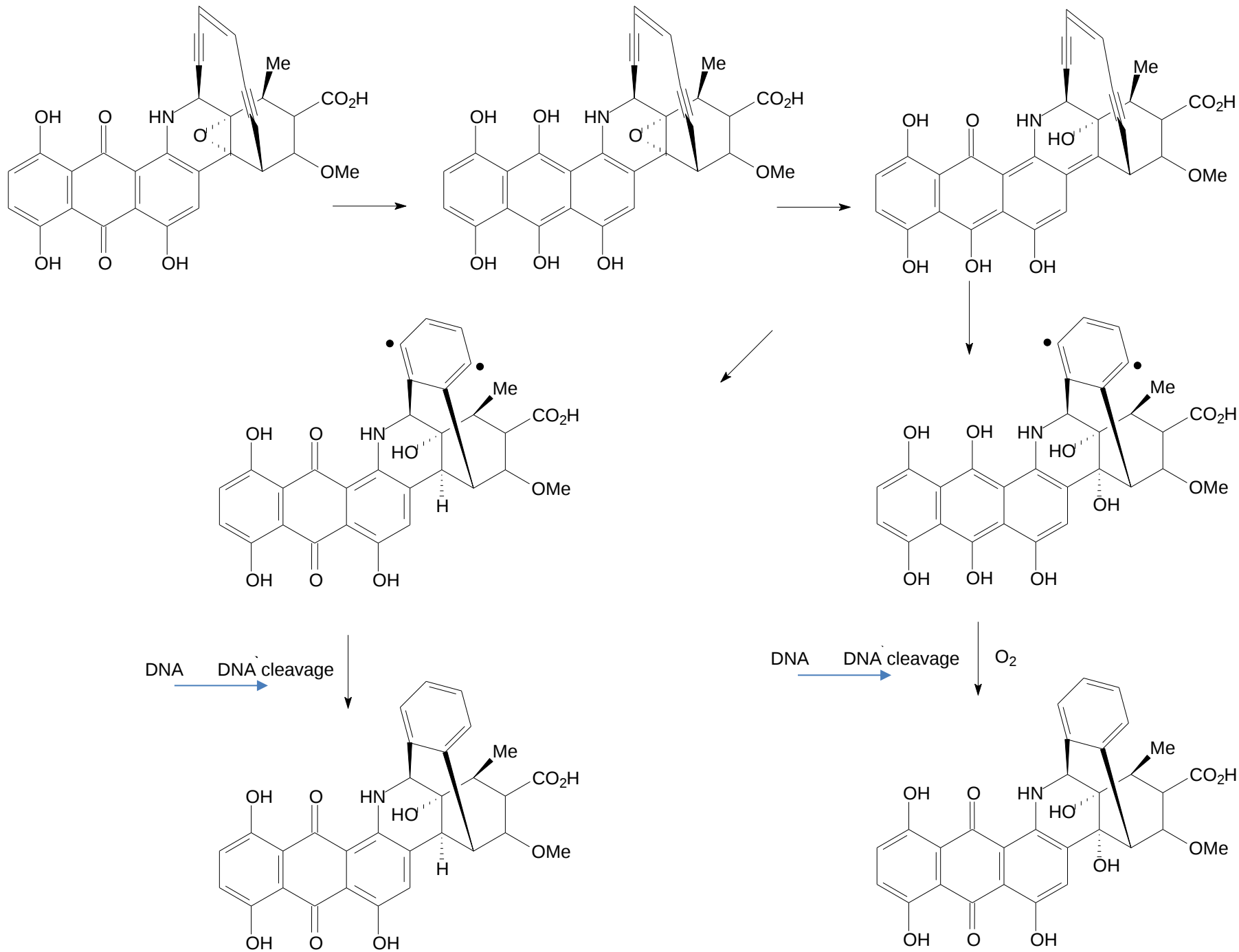


Less seq. selectivity. C-5' and C-4' H abstraction. Esperamicin  $A_1$  effects single strand cuts.

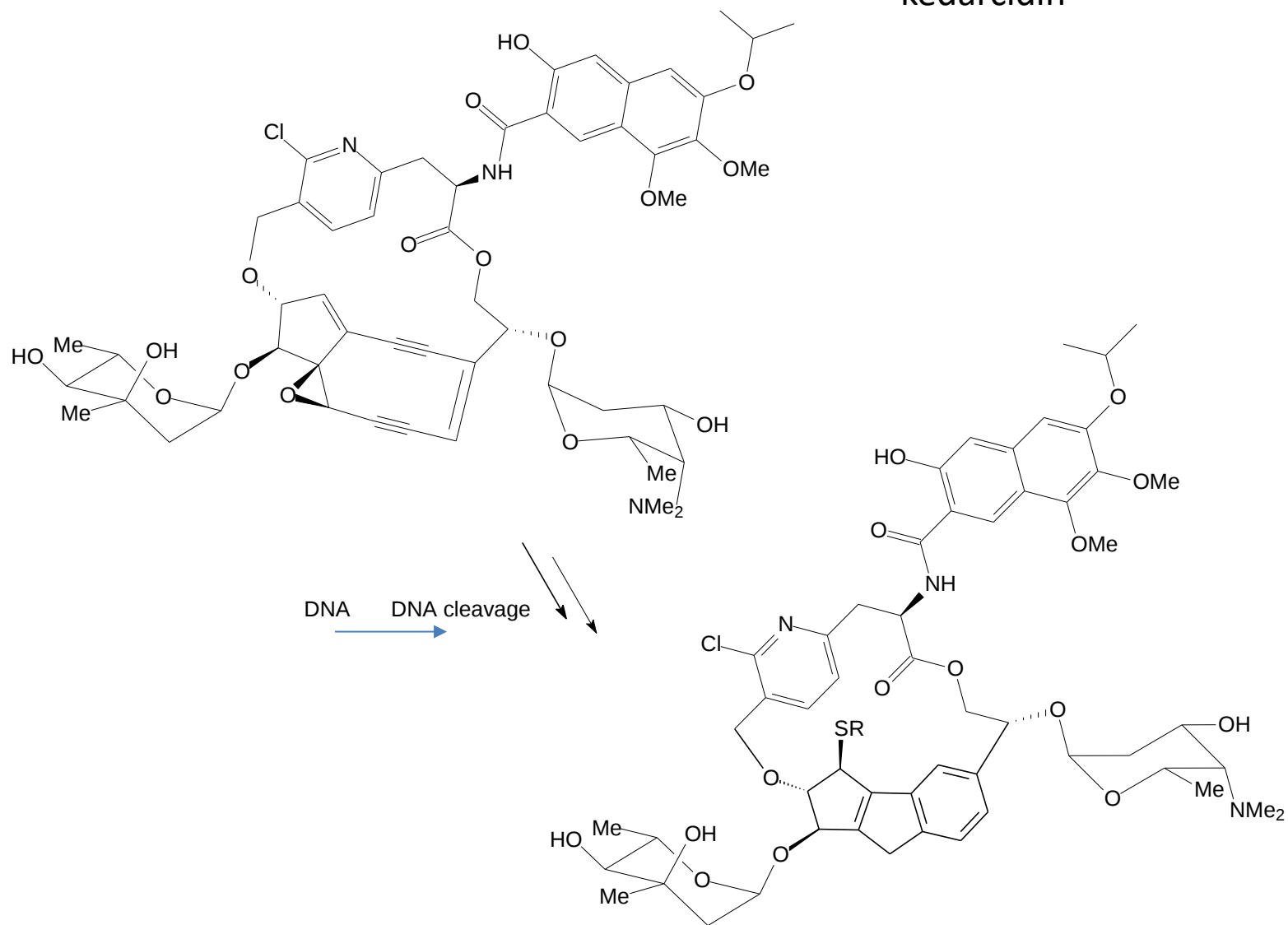
# dynemicins



Single & double strands, due to C-3' H or (and) C-5' H abstraction.

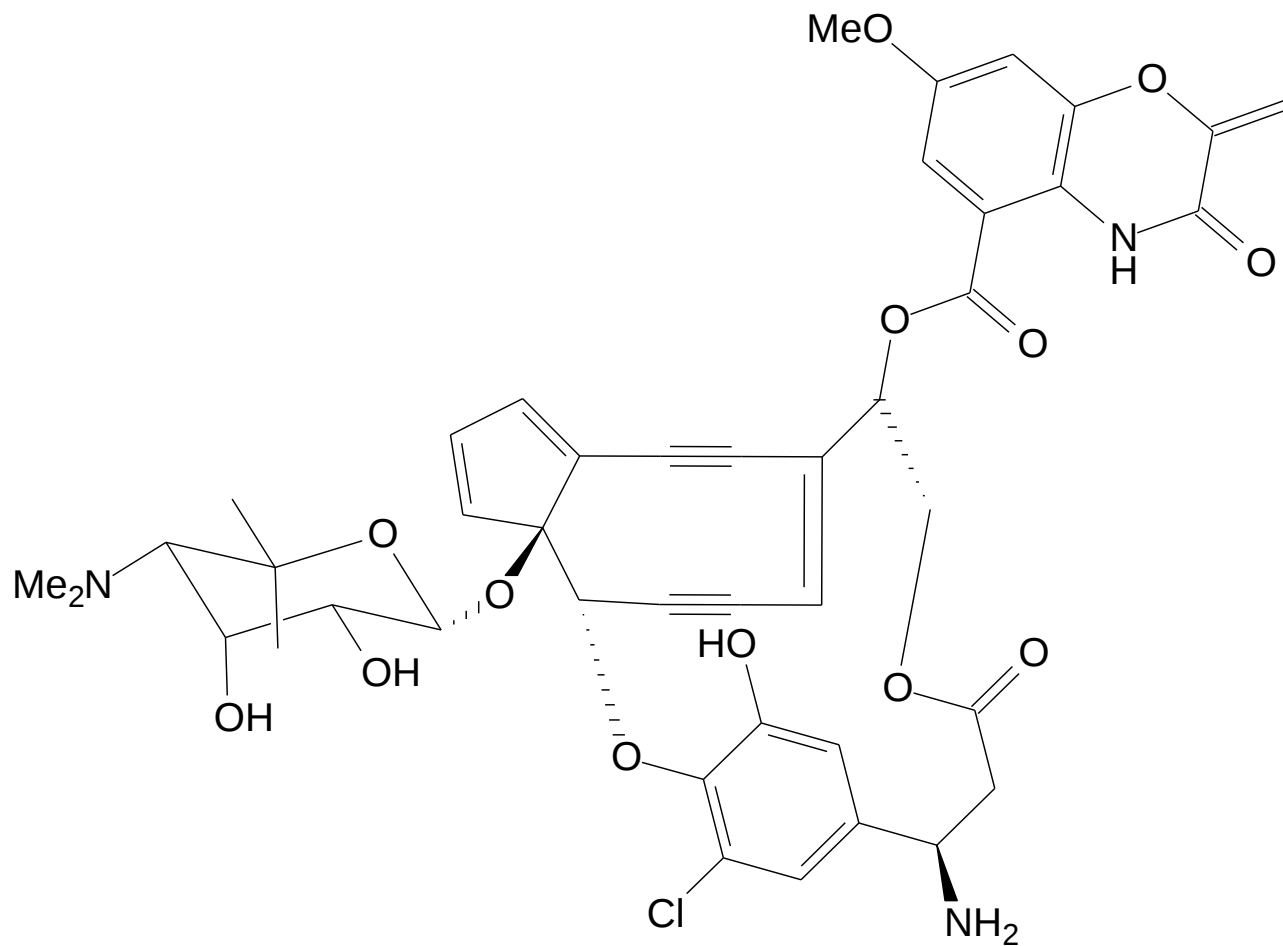


kedarcidin



Specific single strand DNA cleavage at the C-5' of C

C-1027



Specific double strand DNA cleavage due to C-4' H abstraction

maduropeptin

