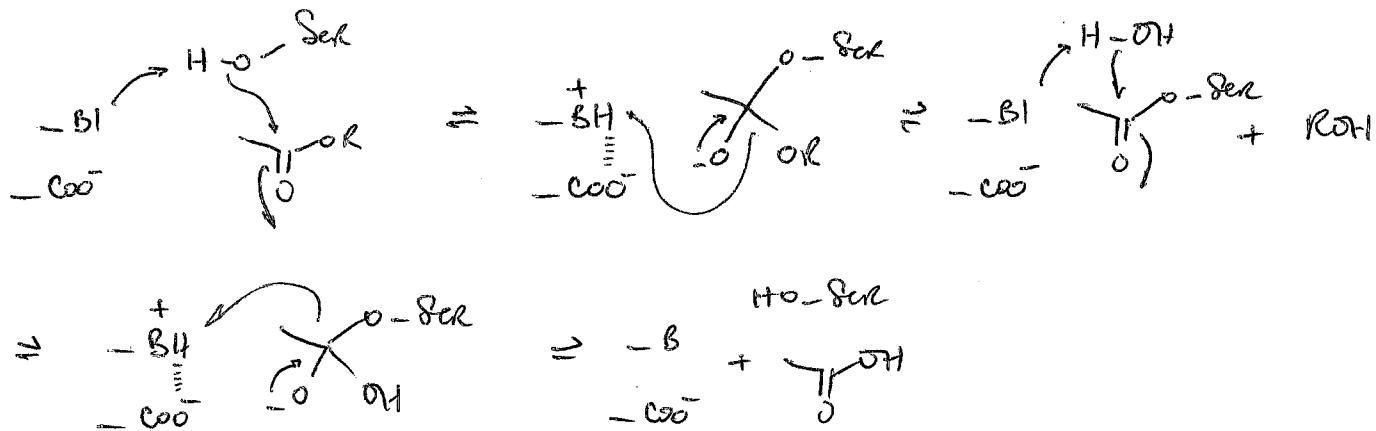
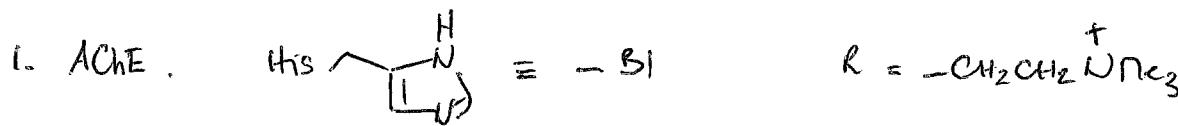


CINÉTIQUE / INHIBITEURS

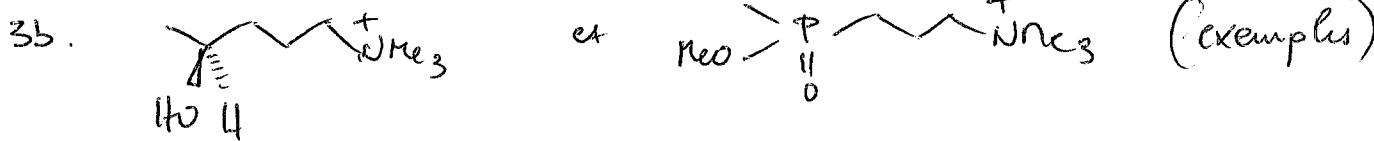


2. $F-\overset{\overset{O}{||}}{P}-OR'$: l'analogue d'iHE et irréversible \Rightarrow modification irréversible de l'acide aminé du site actif, et donc de l'AChE \Rightarrow paralysie respiratoire.

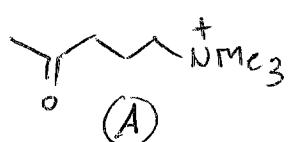
3a. I anal. de S vs II anal. iHE (ET)

- même que S
- même que l'iHE/ET
- facile à concevoir
- utilise fixation S (K_m)
- difficile à concevoir
- K_m/K_i faible
- K_m/K_i grand.

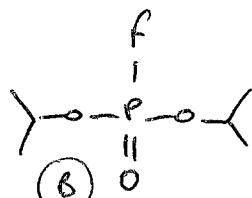
Cf. cours.



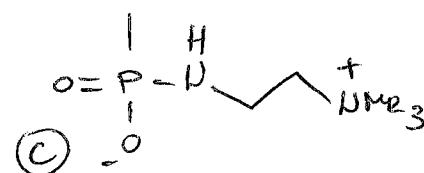
4. 2.b.c.



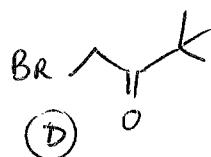
Rév.
Anal. S



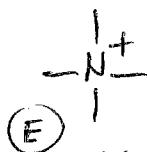
I Rév.
Anal. iHE



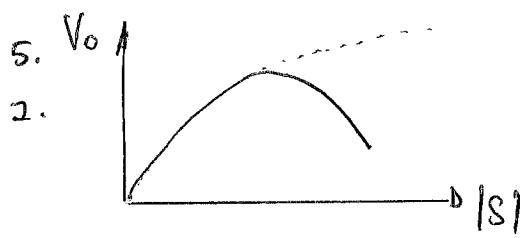
Rév.
Anal. iHE



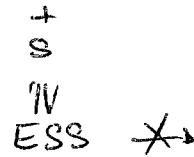
I Rév.
Mangan. eff.
vs His.



Rév.
Anal. S



b. Inhibition par excès de S est un cas particulier de l'inhibition incompréhensive où $I = S$:



6. $|I| = 0,06 \mu M$

$$y = 0,89808 + 0,1193x \quad (\text{sans } I)$$

6.1. $\frac{1}{V_{max}} = 0,89808 \mu M^{-1} \cdot min^{-1} \Rightarrow V_{max} = 1,1135 \mu M \cdot min^{-1}$

$$\frac{K_m}{V_{max}} = 0,1193 \frac{\mu M^{-1} \cdot min}{mM^{-1}} \Rightarrow K_m = 0,1193 \times 1,1135 mM = 0,132 mM$$

6.2. $m = 1 \text{ ng}$ $|E|_T = \frac{10^{-9}}{55000 \times 10^{-3}}$ $V_{max} = k_{cat} |E|_T$
 $n = 55000$ $k_{cat} = \frac{1,1135 \times 10^{-6} \times 55000 \times 10^{-3}}{10^{-9}} = 61242 min^{-1} = 1021 s^{-1}$

$$\tau = 1/k_{cat} = 0,98 \text{ ms.}$$

6.3. I non-compétitif pur $\Rightarrow K_m^{app} = \text{cte.}$

V_{max}^{app} diminue

$$\frac{1}{V_0} = \frac{\alpha}{V_{max}} + \frac{\alpha K_m}{V_{max}} \cdot \frac{1}{[S]} \quad (\alpha = 1 + \frac{|I|}{K_i})$$

6.4. $\frac{\text{peutc}'}{\text{peutc}} = \alpha = 1 + \frac{|I|}{K_i} = \frac{0,25782}{0,1193} \Rightarrow \frac{|I|}{K_i} = 1,16$

$$\Rightarrow K_i = \frac{0,06 \mu M}{1,16} = 0,052 \mu M$$