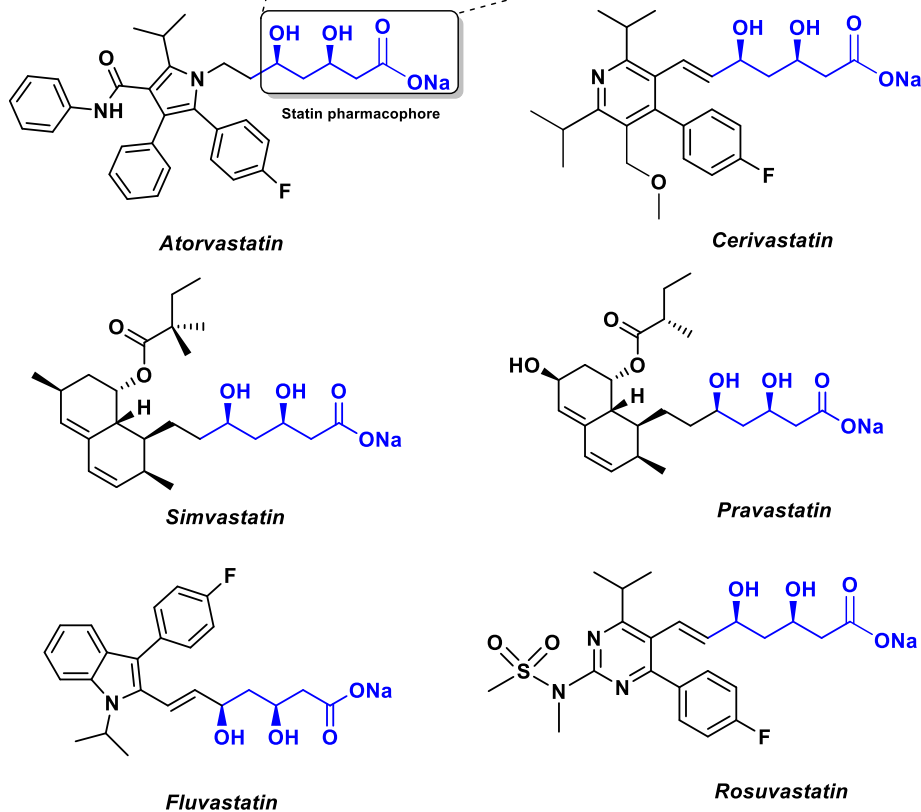
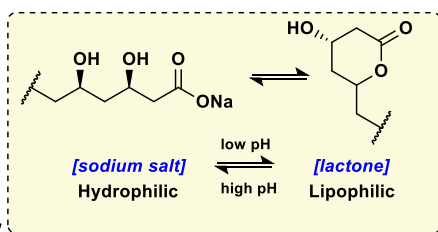


A

The statin pharmacophore can interconvert between open (salt) and closed (lactone) forms



B

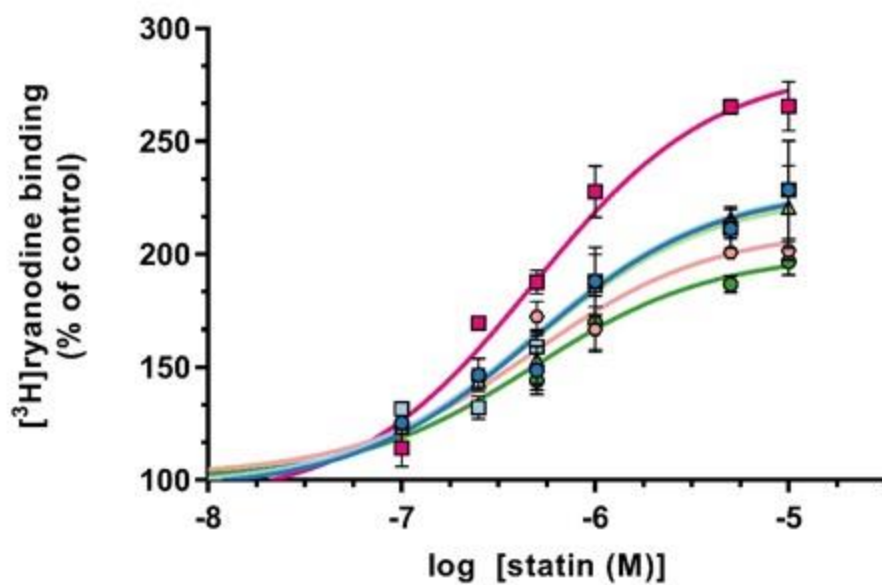


Figure 1

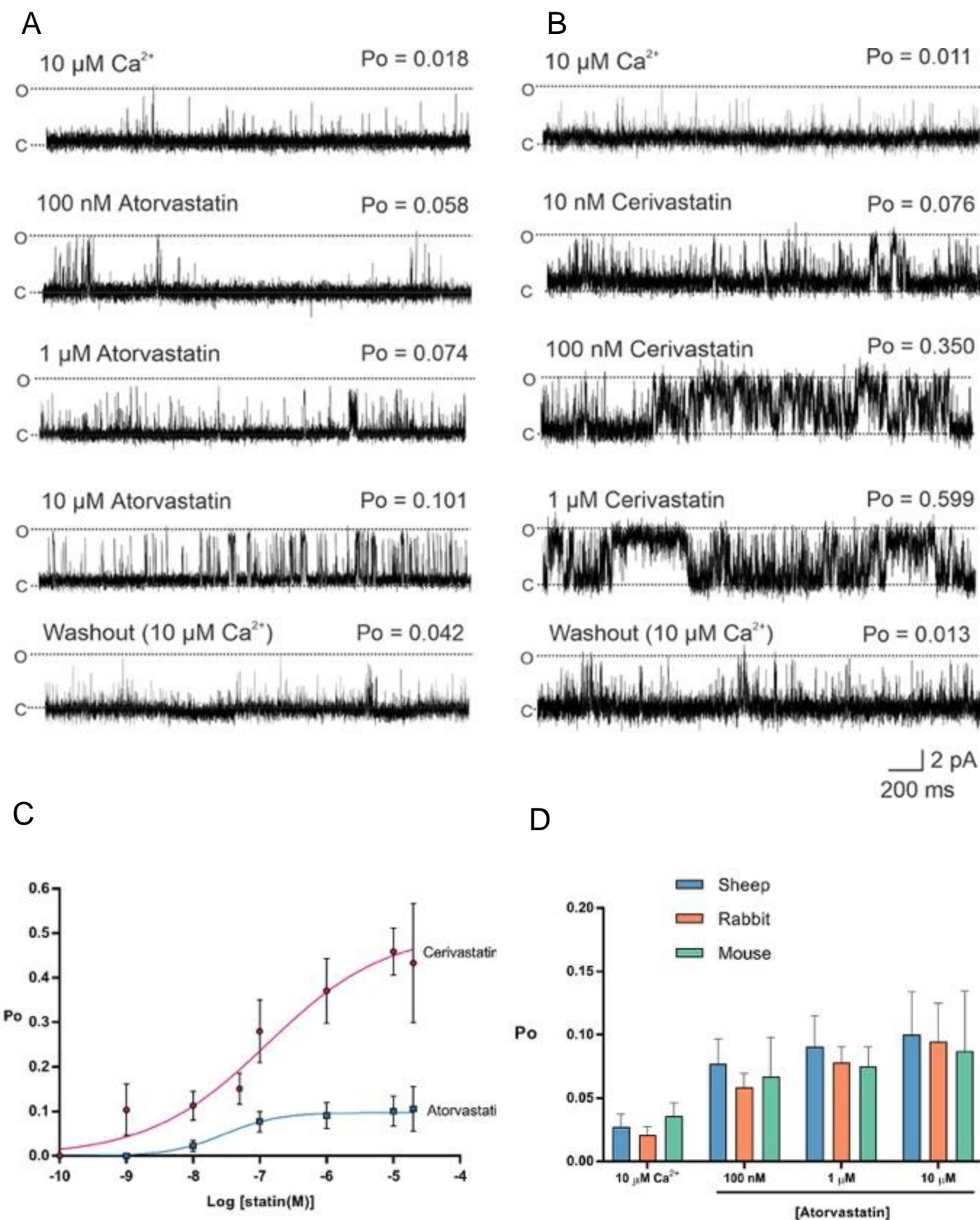
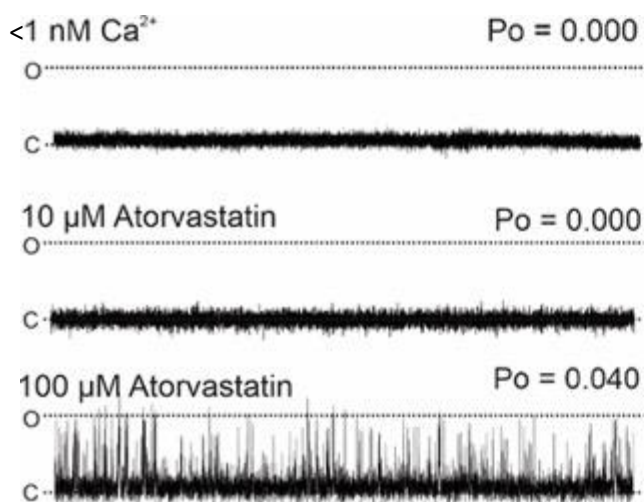
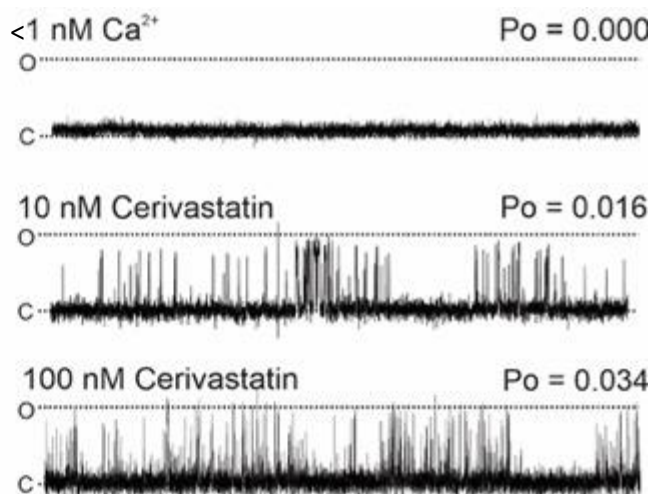


Figure 2

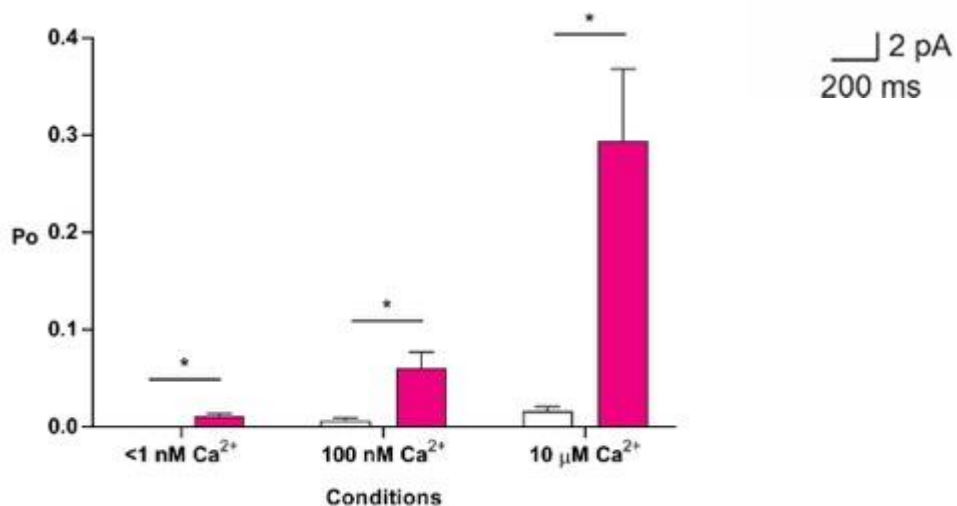
A



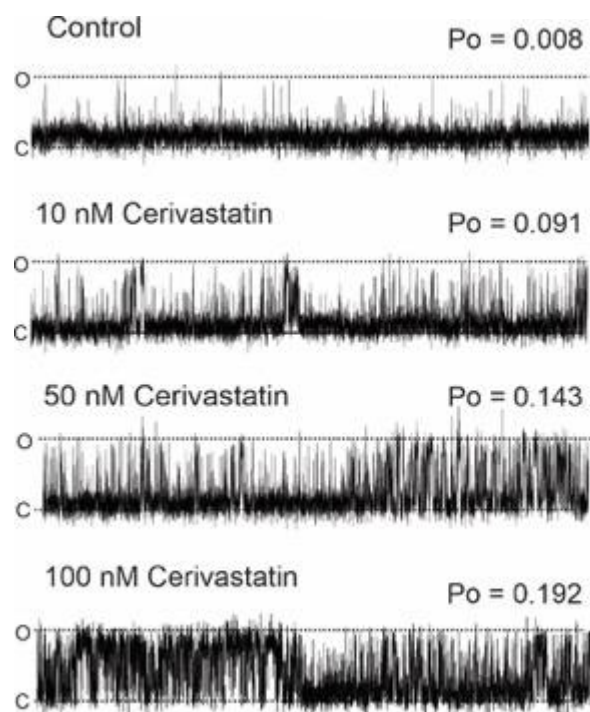
B



C



D



E

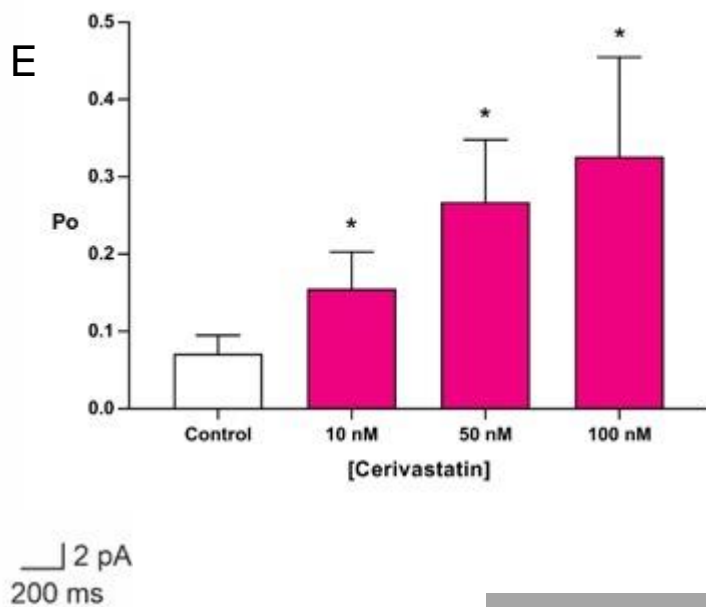


Figure 3

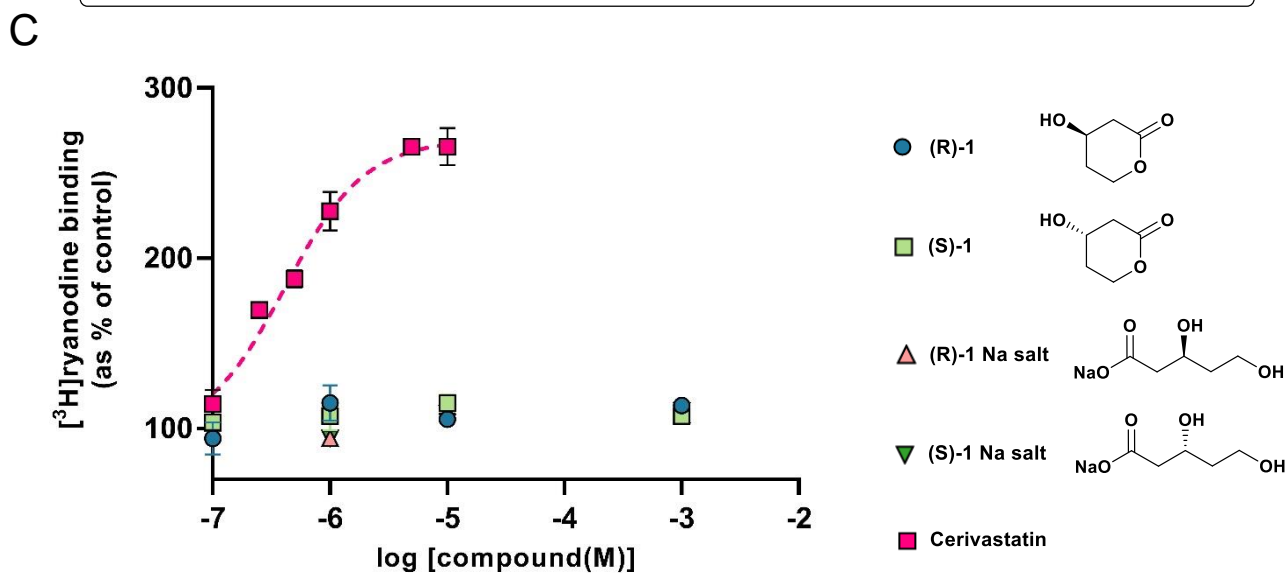
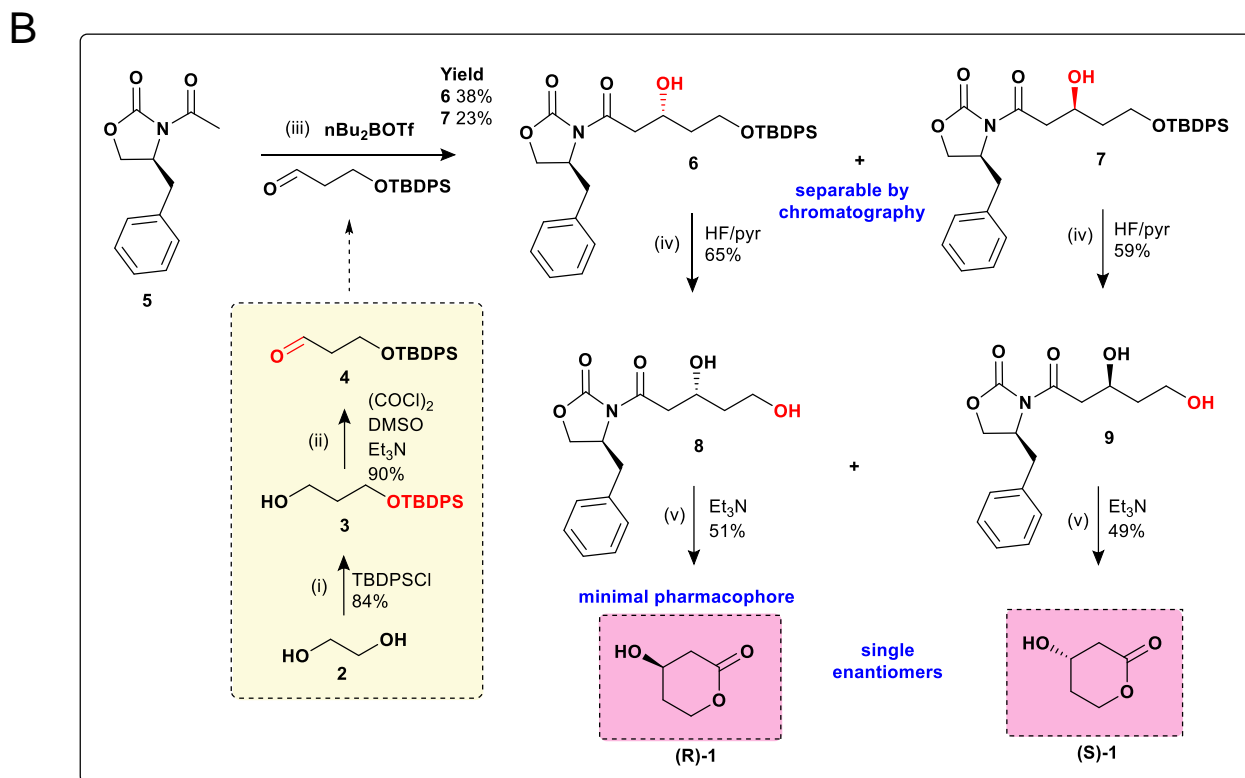
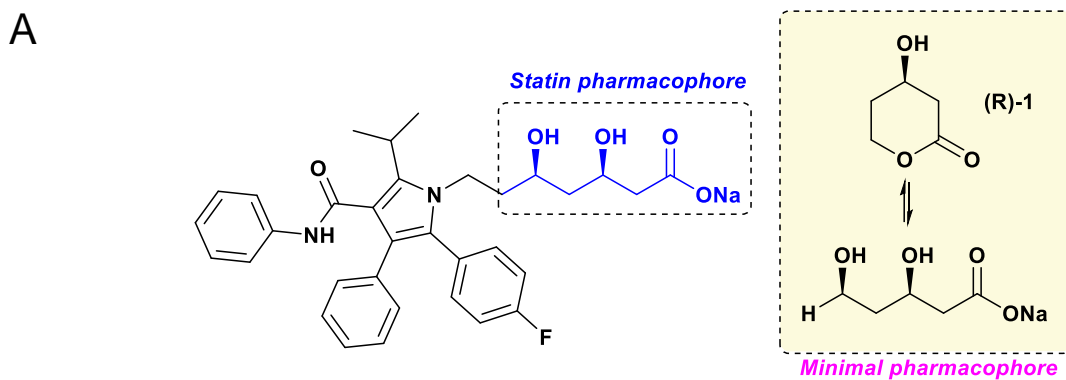
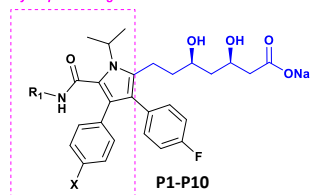


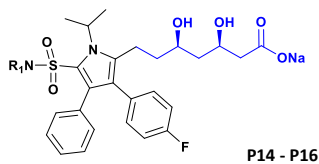
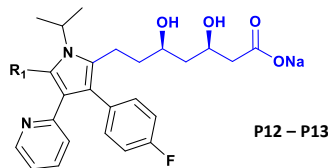
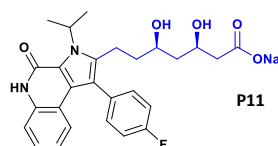
Figure 4

A

Hydrophobic region



	$R_1$	X	HMG-CoA IC <sub>50</sub> (nM)	Max or min binding (% of control)
P1		F	1.8	ND
P2		H	0.4	169
P3		H	0.3	126
P4		H	0.7	125
P5		H	0.2	ND
P6		H	1.2	ND
P7		H	1.5	173
P8		H	0.8	ND
P9		H	12.0	78
P10		H	3.8	59

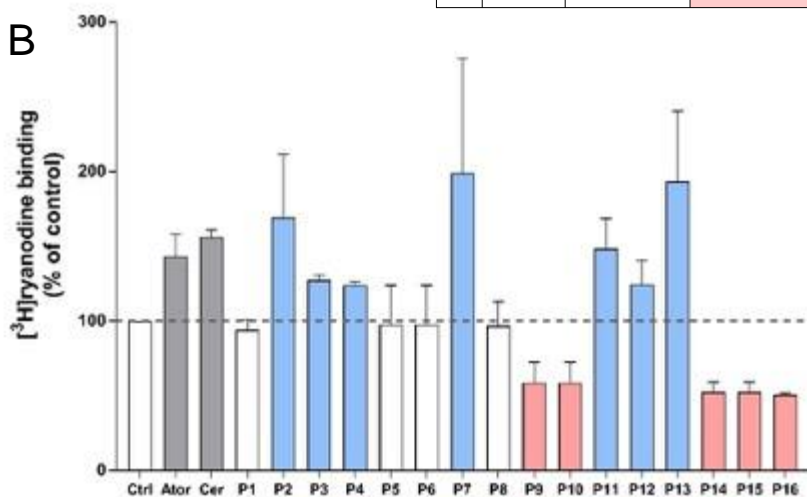


	HMG-CoA IC <sub>50</sub> (nM)	Max binding (% of control)
P11	11.7	178

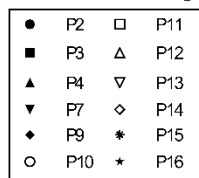
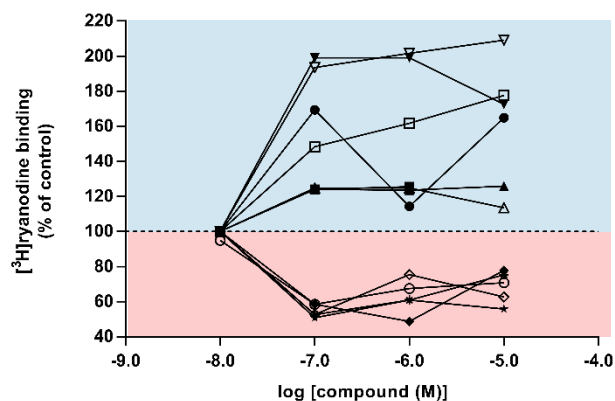
	$R_1$	HMG-CoA IC <sub>50</sub> (nM)	Max binding (% of control)
P12		4.8	124
P13		5.3	209

	$R_1$	HMG-CoA IC <sub>50</sub> (nM)	Min binding (% of control)
P14		4.5	53
P15		2.9	53
P16		2.6	51

B



C



Legend

D

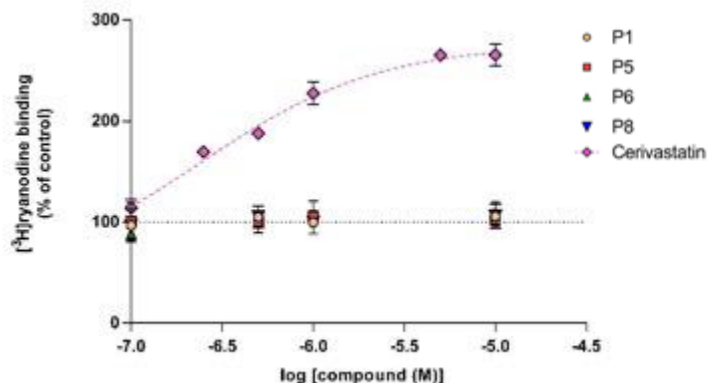
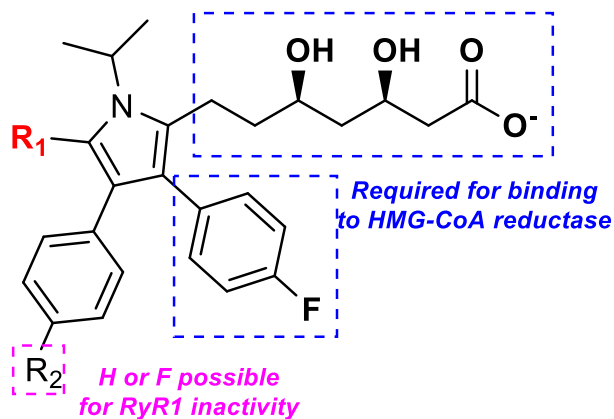
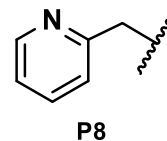
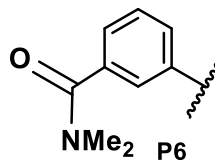
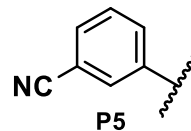
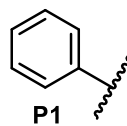


Figure 5



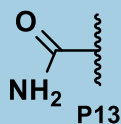
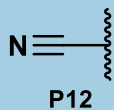
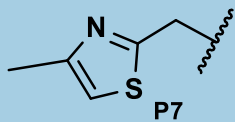
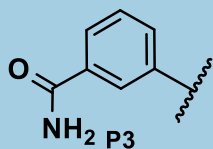
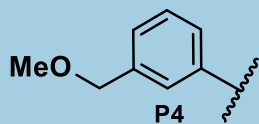
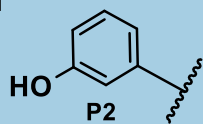
### RyR1 inactive

R<sub>1</sub> =



### RyR1 activators

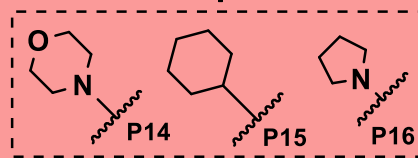
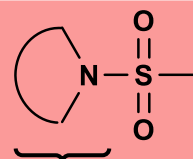
R<sub>1</sub> =



### RyR1 inhibitors

R<sub>1</sub> =

*5-sulfamoylpyrroles*



*Small alkyl groups*

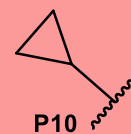


Figure 6