

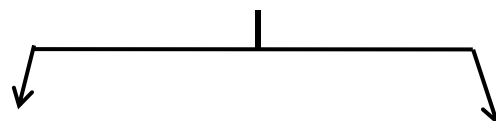
Figure 1. Li *et al.* (2011)

4-hydroxy-N-desmethyl TAM (endoxifen)

Black cohosh 75% ethanolic extract

(% inhibition at 50 µg/ml)

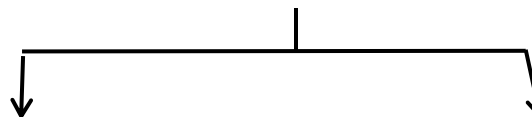
α-OH TAM	80.3 ± 2.8
4-OH TAM	66.3 ± 1.6
<i>N</i> -desmethyl TAM	74.6 ± 2.2



EtOAc fraction (triterpenoids)

α-OH TAM	92.9 ± 0.4
4-OH TAM	87.1 ± 0.8
<i>N</i> -desmethyl TAM	88.0 ± 1.2
CYP2D6	39.3 ± 7.9
CYP3A4	72.0 ± 1.8

Aqueous (phenolics and sugars)



Aqueous (sugars)

N/A

XAD-MeOH (phenolics)

α-OH TAM	44.3 ± 8.0
4-OH TAM	36.1 ± 3.6
<i>N</i> -desmethyl TAM	37.4 ± 5.0
CYP2D6	28.4 ± 5.9
CYP3A4	52.3 ± 7.2

FCPC Fraction

	1	2	3	4	5	6
α-OH TAM	< 20%	< 20%	< 20%	<20%	34.0 ± 2.3	72.8 ± 1.7
4-OH TAM	< 20%	< 20%	< 20%	<20%	31.4 ± 2.2	62.1 ± 3.0
<i>N</i> -desmethyl TAM				32.4 ± 1.3	39.0 ± 8.4	76.5 ± 1.5
CYP2D6				31.4 ± 3.3	46.0 ± 1.3	60.8 ± 4.3
CYP3A4				26.5 ± 4.8	77.1 ± 2.0	70.0 ± 4.9

Figure 2. Li *et al.* (2011)

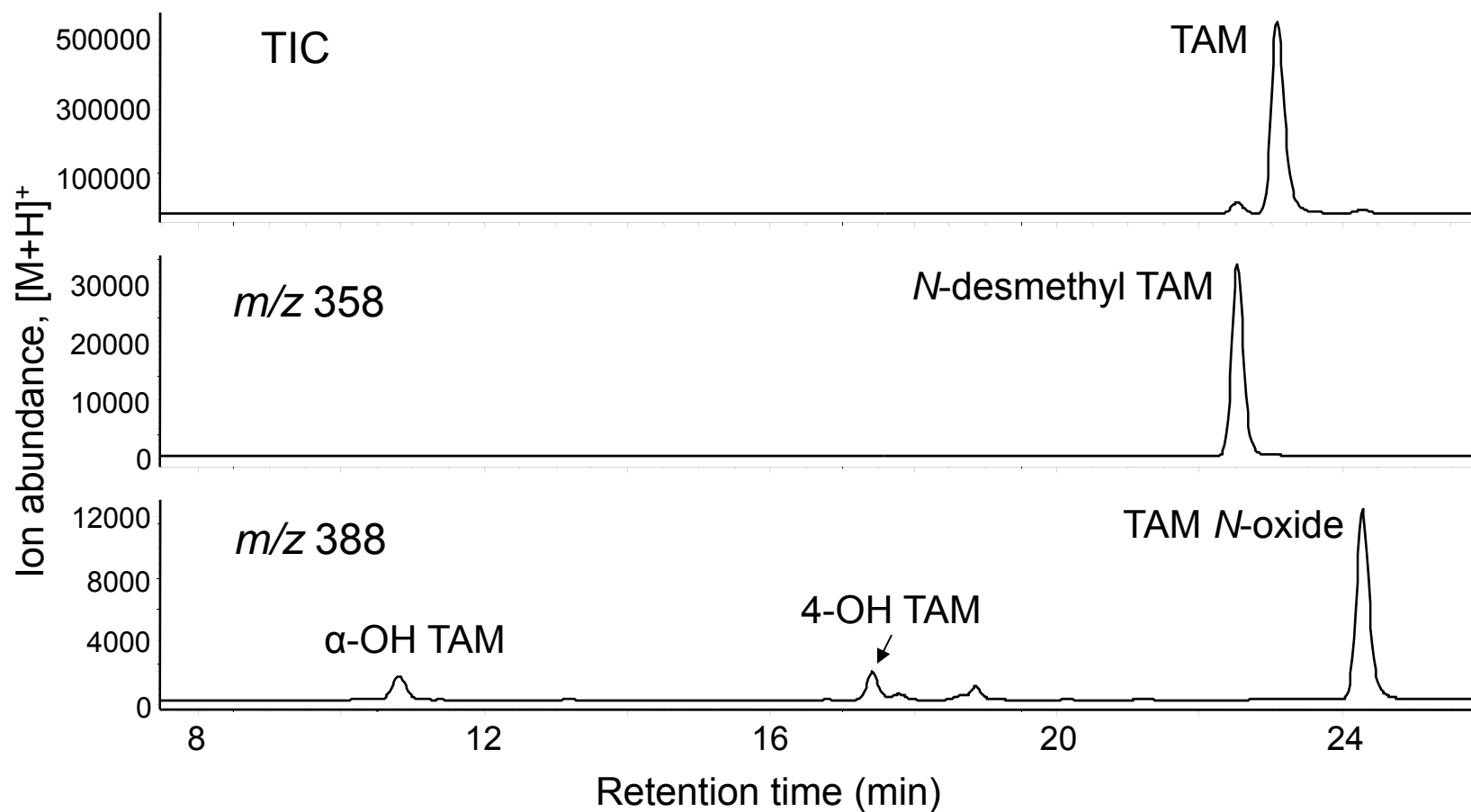
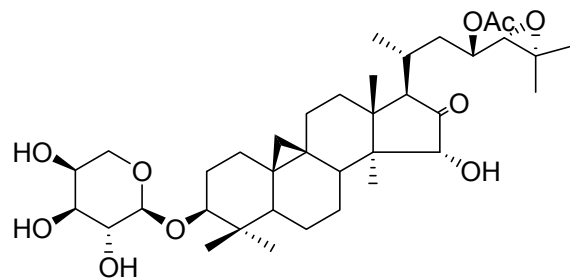
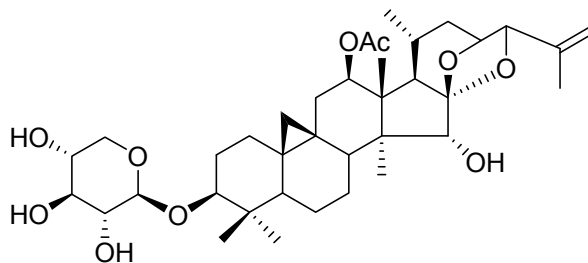


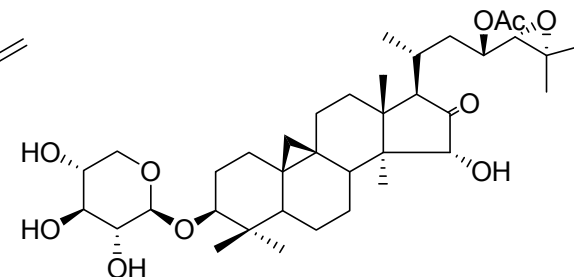
Figure 3. Li *et al.* (2011)



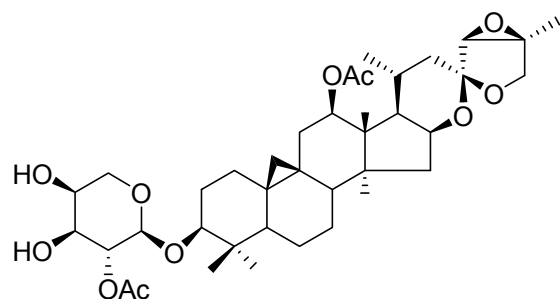
23-O-acetylshengmanol-3- α -L-arabinopyranoside
(23R)



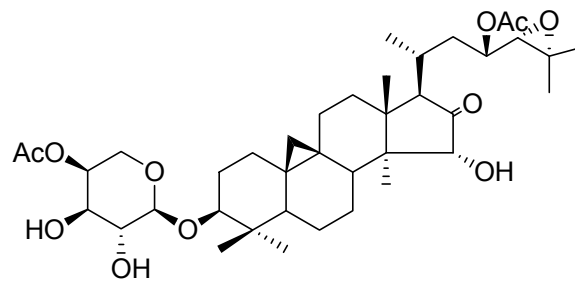
cimracemoside K



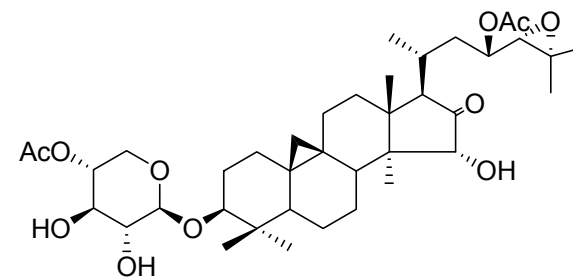
23-O-acetylshengmanol-3- β -D-xylopyranoside



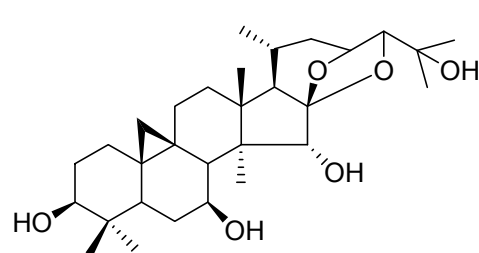
cimracemoside O



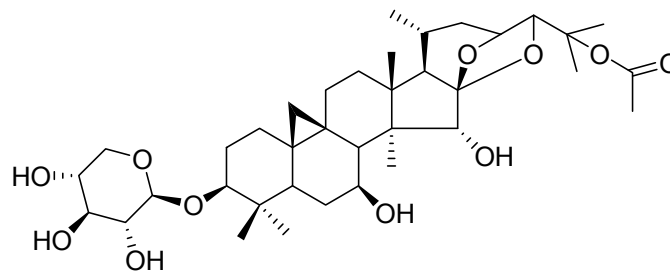
cimracemoside L



cimicifugoside M



7-hydroxycimigenol aglycone



25-O-acetyl-7- β -hydroxycimigenol 3-O- β -xylopyranoside

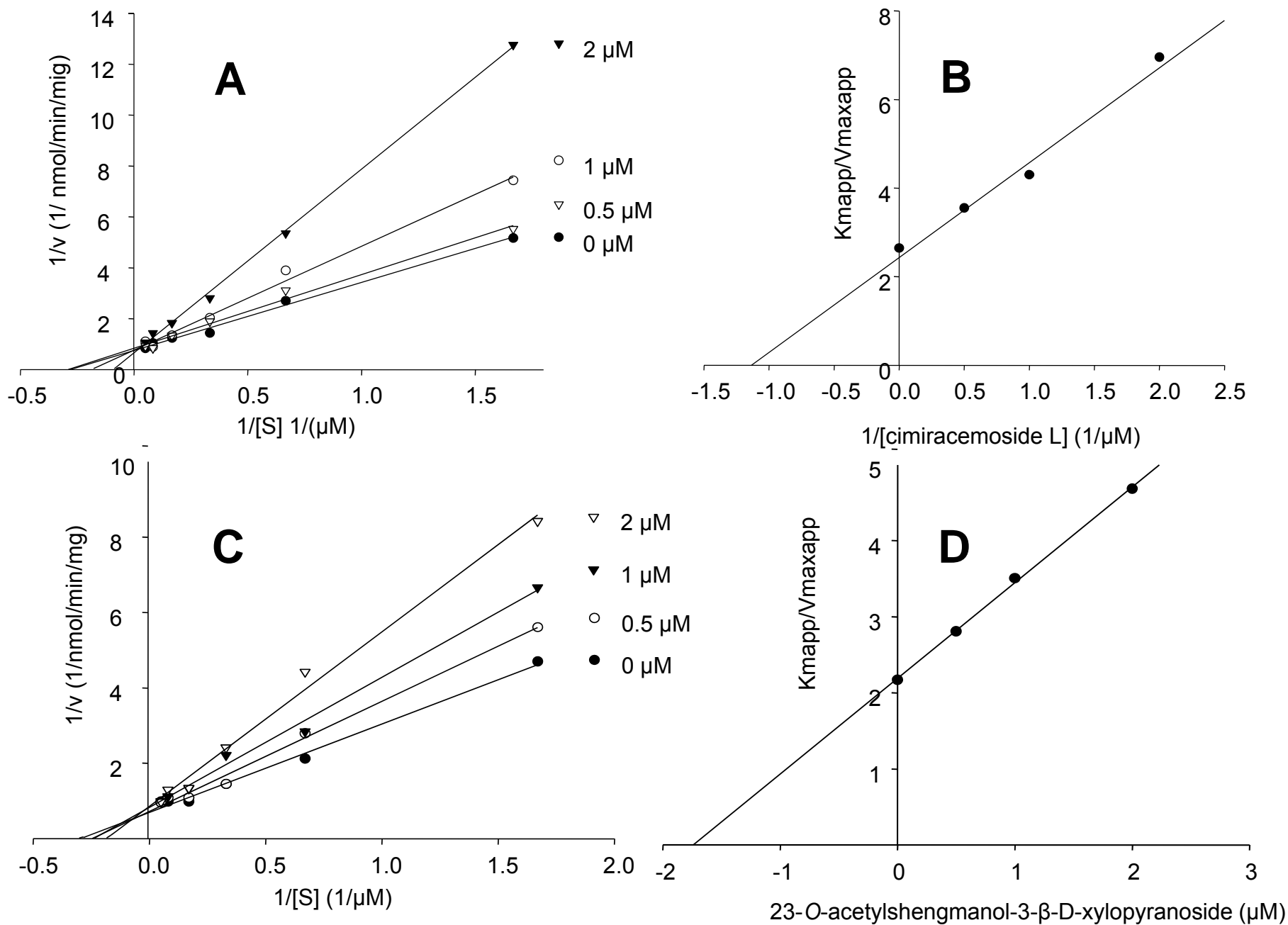


Figure 5. Li *et al.* (2011)

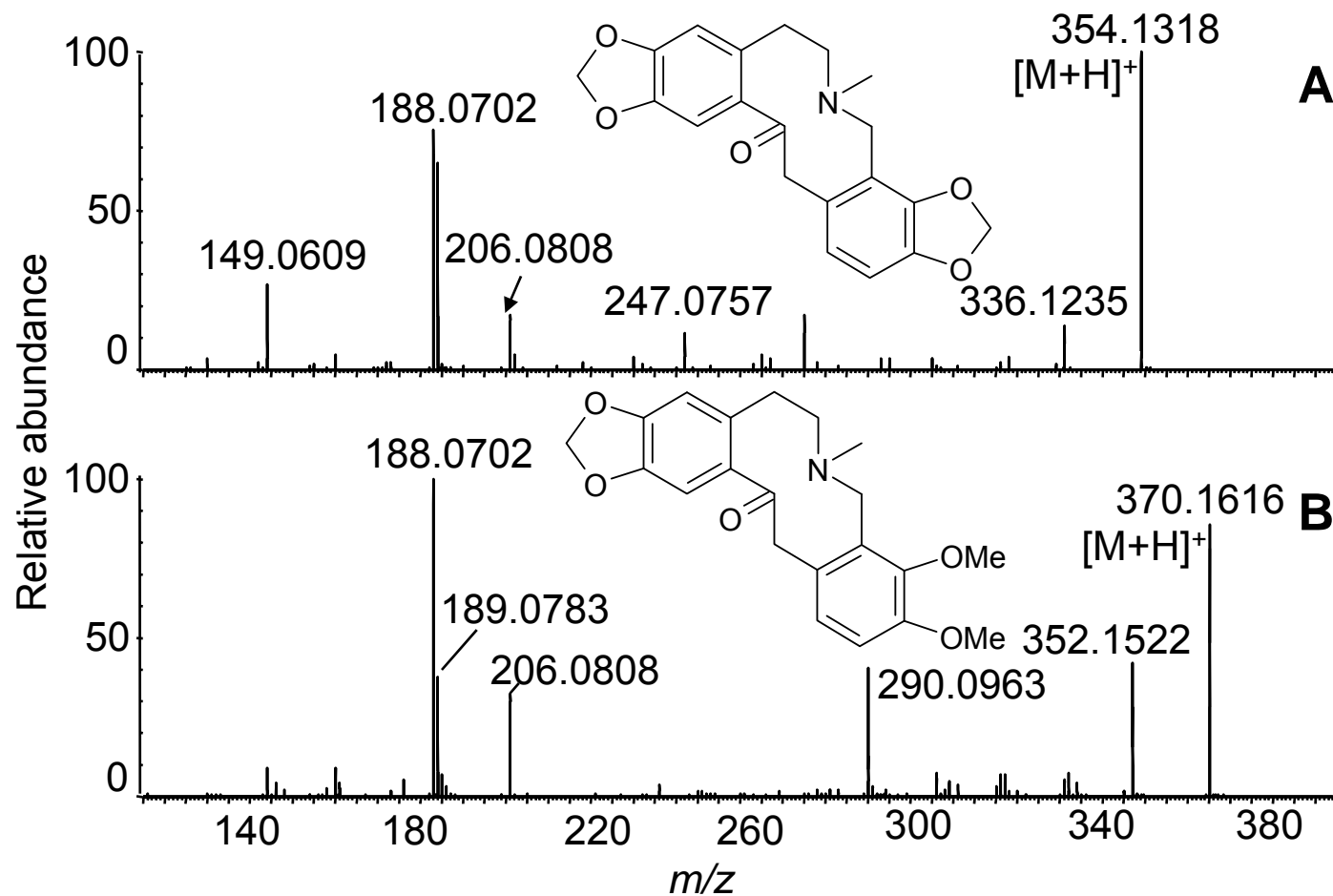


Figure 6. Li *et al.* (2011)

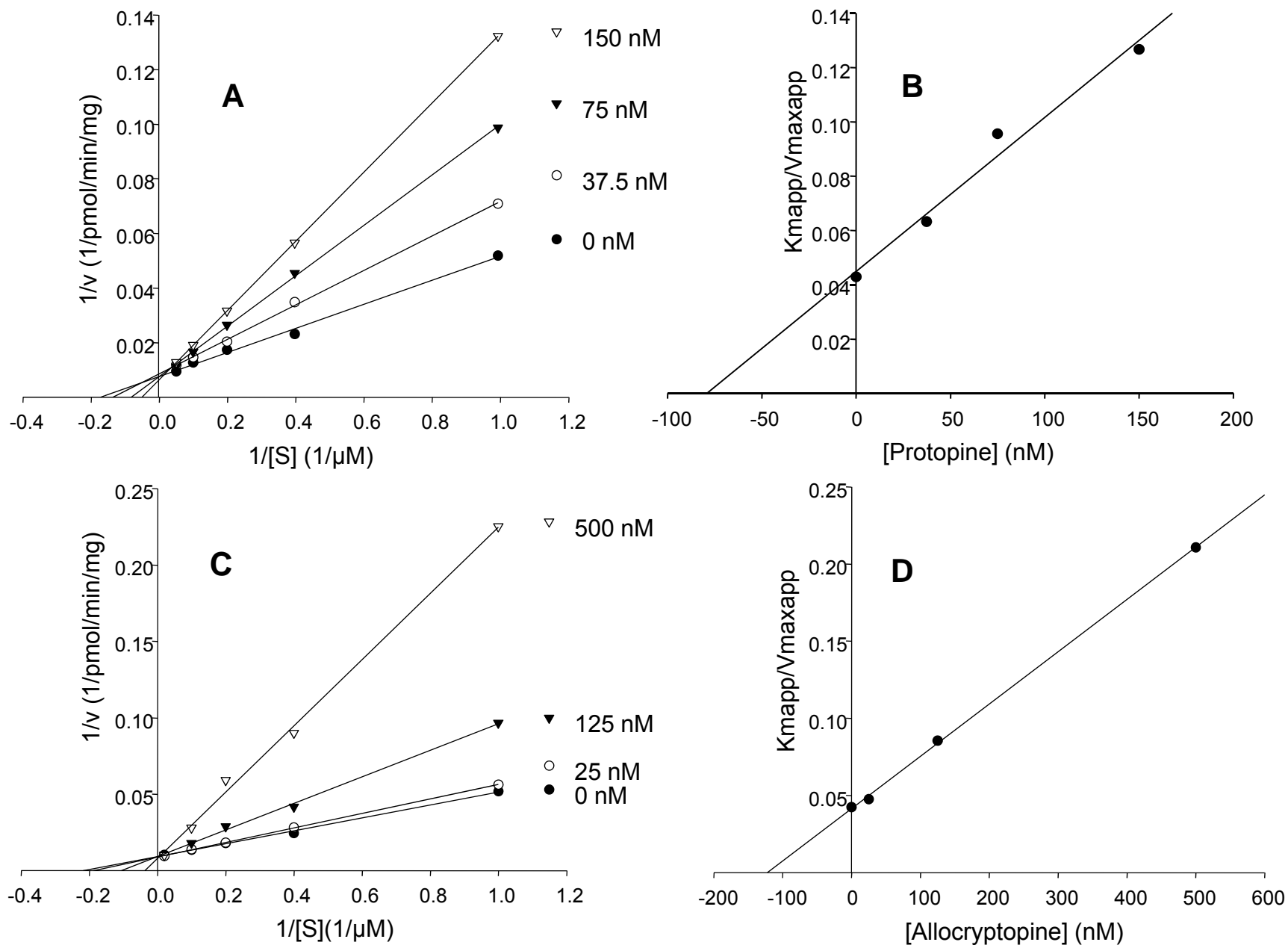


Figure 7. Li *et al.* (2011)