Supplementary file for

SYNTHESIS OF NOVEL SCHIFF BASE DERIVATIVES OF TACRINE AND INVESTIGATION OF THEIR ACETYLCHOLINESTERASE INHIBITION POTENCY

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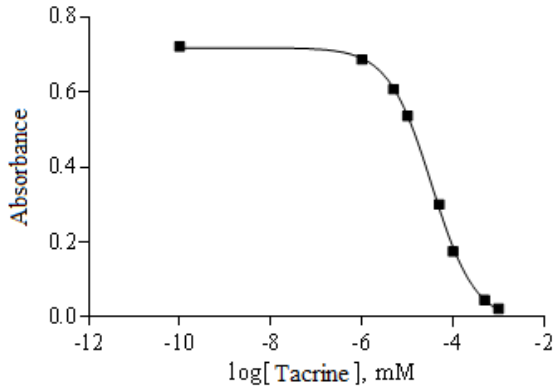
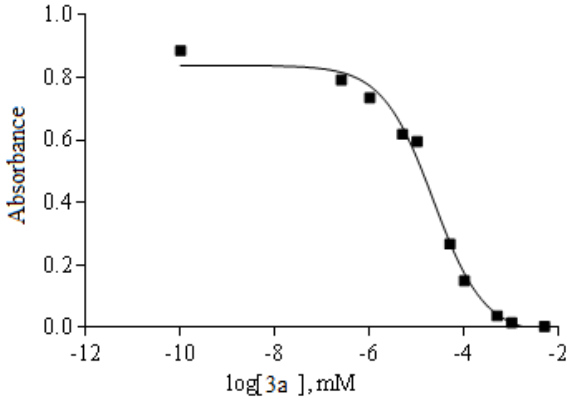
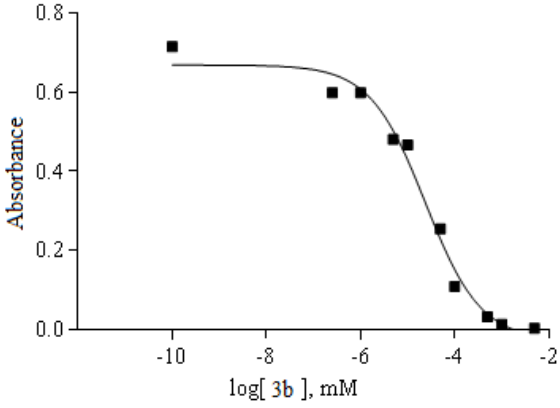


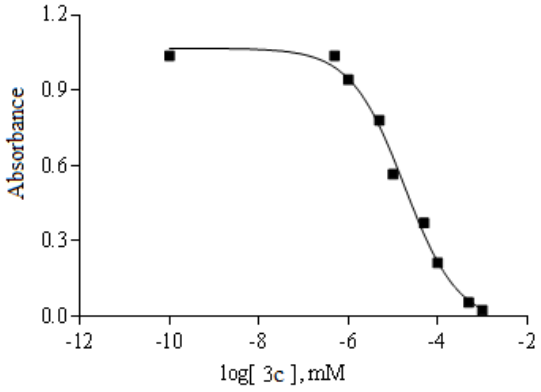
(a)



(b)



(c)



(d)

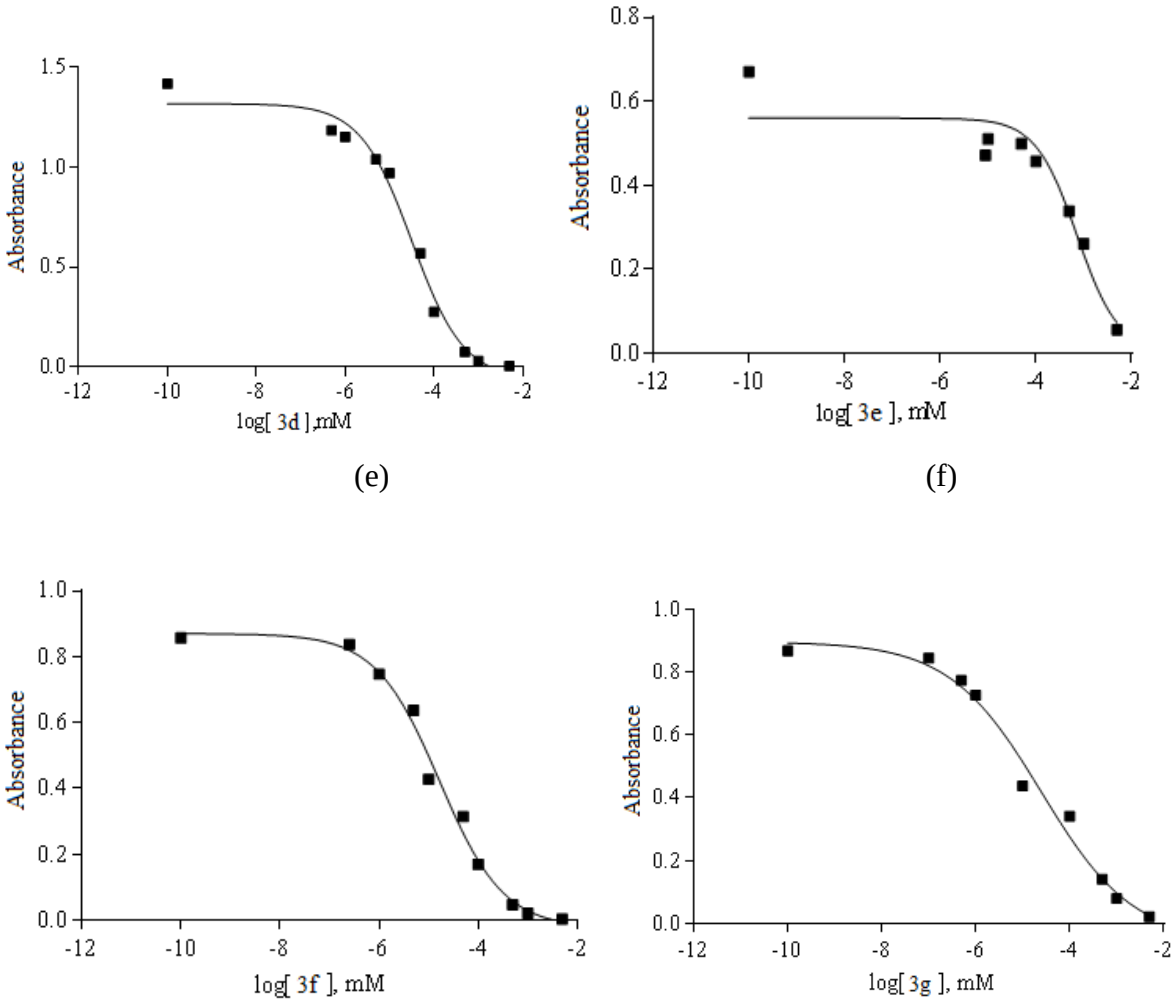
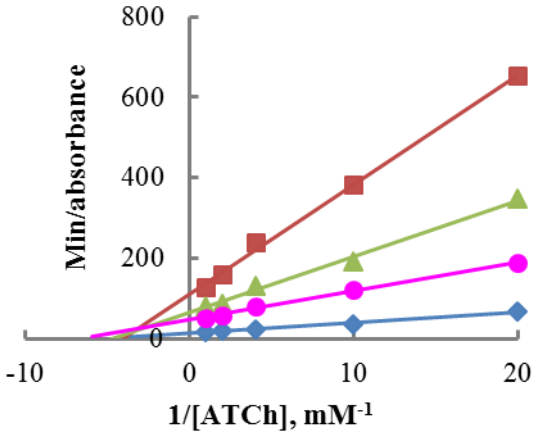
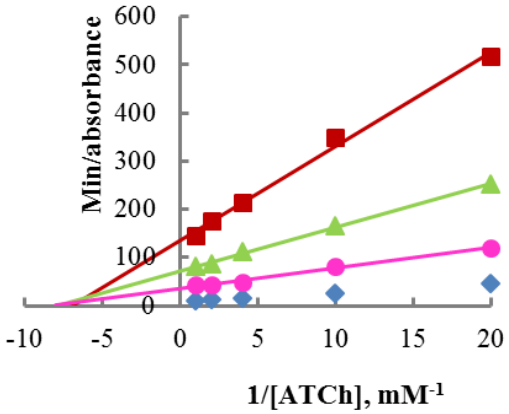


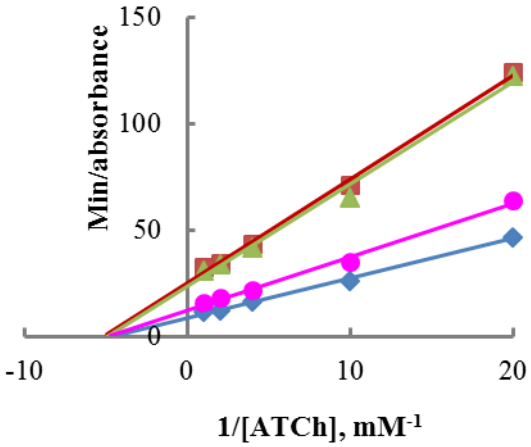
Fig. S1. IC_{50} graphs for the inhibition of AChE by Schiff base derivatives. (a) Tacrine (b) **3a** (c) **3b** (d) **3c** (e) **3d** (f) **3e** (g) **3f** (h) **3g**


800
600
400
200
0
Min/absorbance
-10
0
10
20
1/[ATCh], mM-1

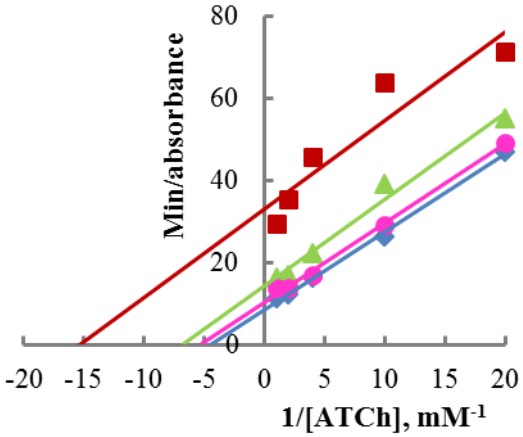
(a)


600
500
400
300
200
100
0
Min/absorbance
-10
-5
0
5
10
15
20
1/[ATCh], mM-1

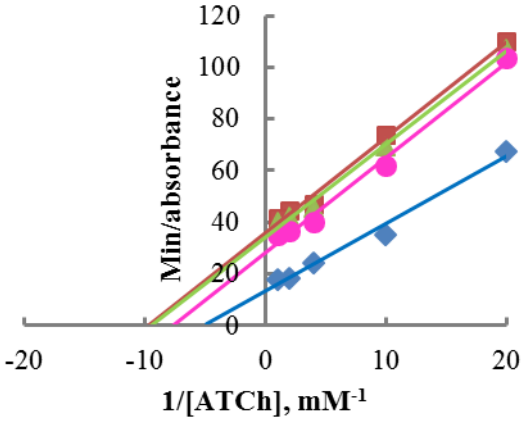
(b)


150
100
50
0
Min/absorbance
-10
0
10
20
1/[ATCh], mM-1

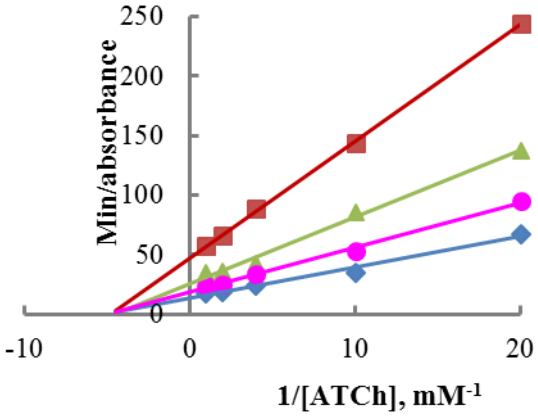
(c)


80
60
40
20
0
Min/absorbance
-20
-15
-10
-5
0
5
10
15
20
1/[ATCh], mM-1

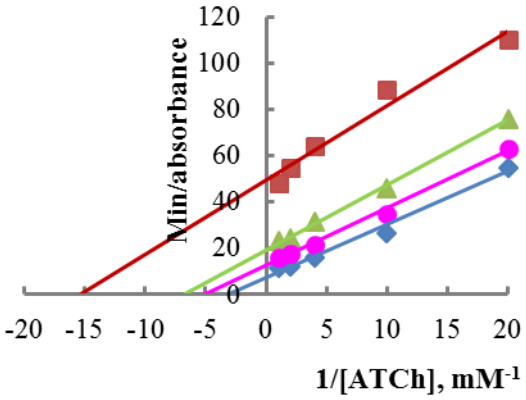
(d)


120
100
80
60
40
20
0
Min/absorbance
-20
-10
0
10
20
1/[ATCh], mM-1

(e)


250
200
150
100
50
0
Min/absorbance
-10
0
10
20
1/[ATCh], mM-1

(f)



(g)

Fig. S2. Lineweaver-Burk plots for the inhibition of AChE by Schiff base derivatives (◆ non inhibitor [I], ● [I]=1x10^{-8} M, ▲ [I]=5x10^{-8} M, ■ [I]=1x10^{-7} M) (a) **3a** (b) **3b** (c) **3c** (d) **3d** (e) **3e** (f) **3f** (g) **3g**