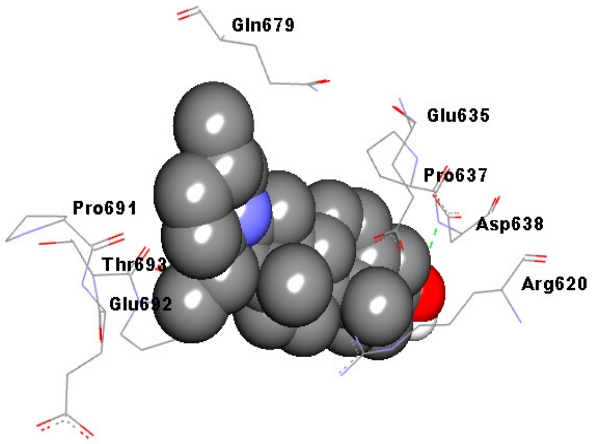
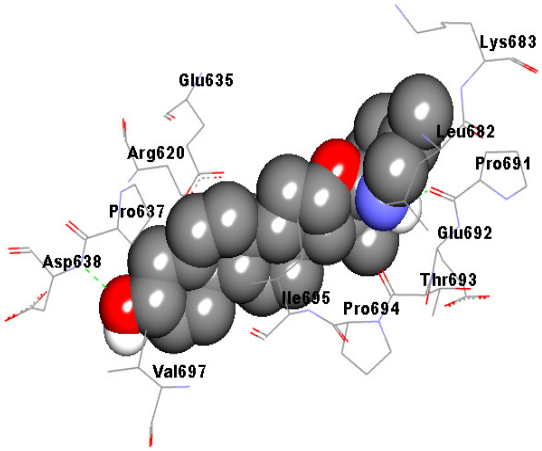
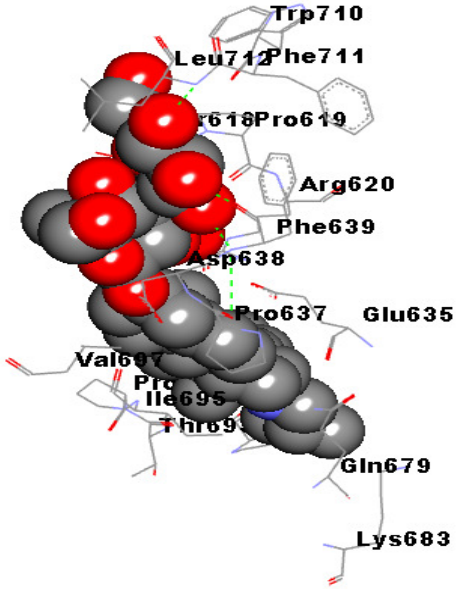

Gln679
Glu635
Pro637
Pro691
Asp638
Thr693
Arg620
Glu692

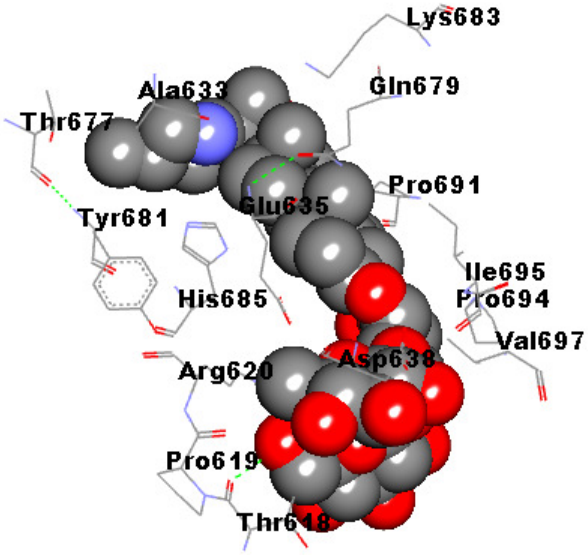
(a)


Lys683
Glu635
Leu682
Arg620
Pro691
Pro637
Glu692
Asp638
Thr693
Ile695
Pro694
Val697

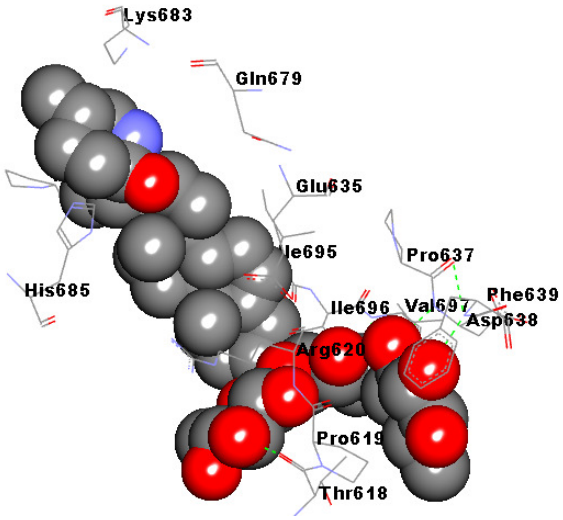
(b)


Trp710
Leu712
Phe711
Pro619
Arg620
Phe639
Asp638
Pro637
Glu635
Val697
Ile695
Gln679
Lys683

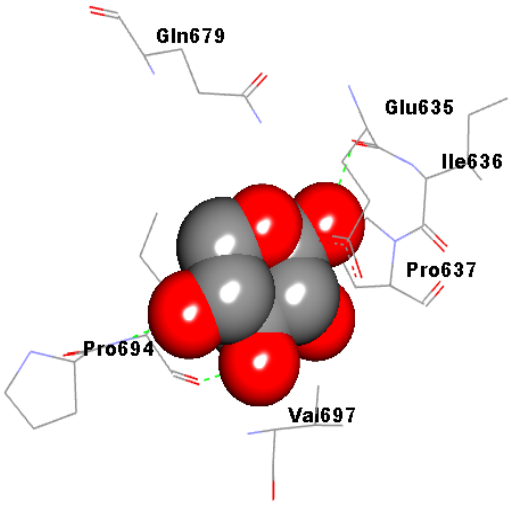
(c)


Lys683
Ala633
Gln679
Thr677
Pro691
Glu635
Tyr681
Ile695
Pro694
His685
Val697
Arg620
Asp638
Pro619
Thr618

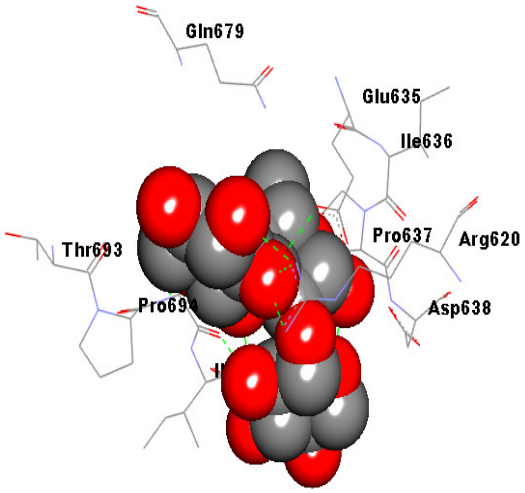
(d)



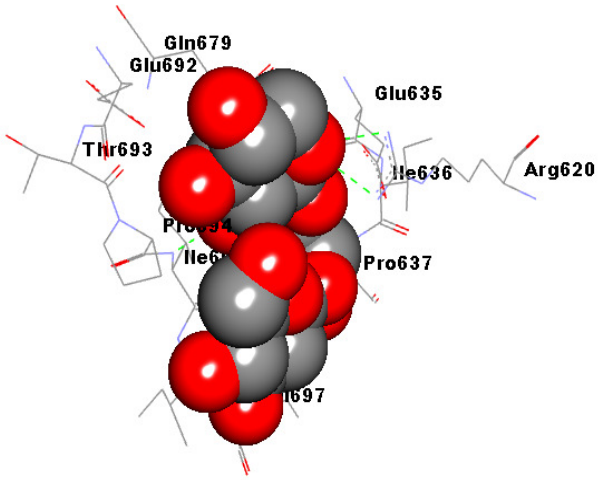
(e)



(f)



(g)



(h)

Best docking poses for binding of (a) solanidine, (b) solasodine, (c) alpha-solanine, (d) solasonine, e) solamargine, (f) degalactotigonin, (g) nigrumnin-I and (h) uttroside B with Villin. The poses were generated using AutoDock v4.2.6.