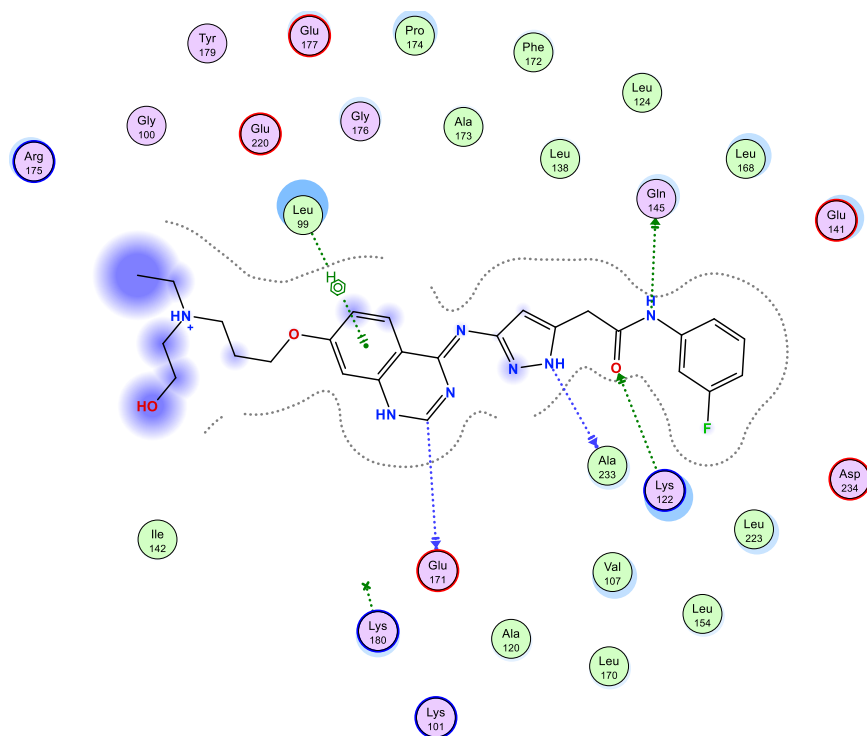


Aurora B kinase in complex with the specific inhibitor Barasertib

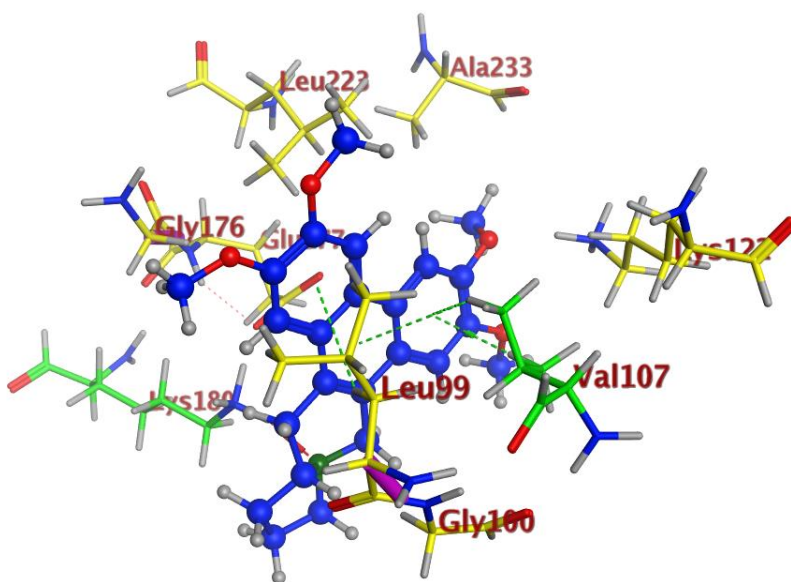
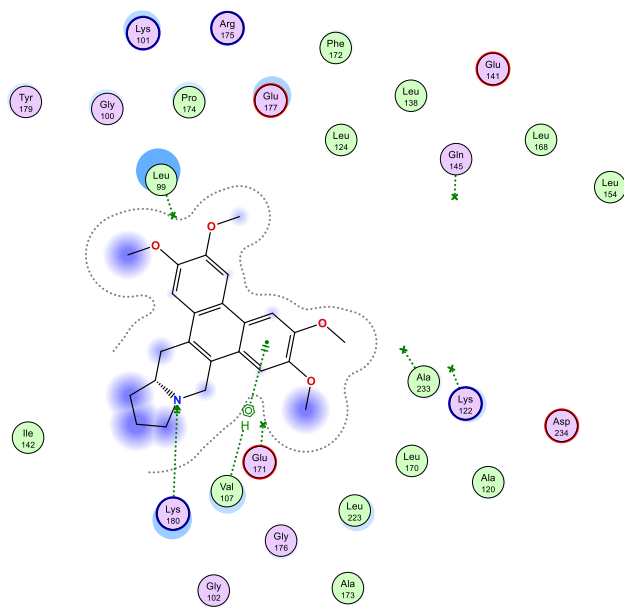
Resolution: 1.49 Å

Co-crystalline ligand (Leu99, Gln145, Ala233, Glu171 & Lys122)

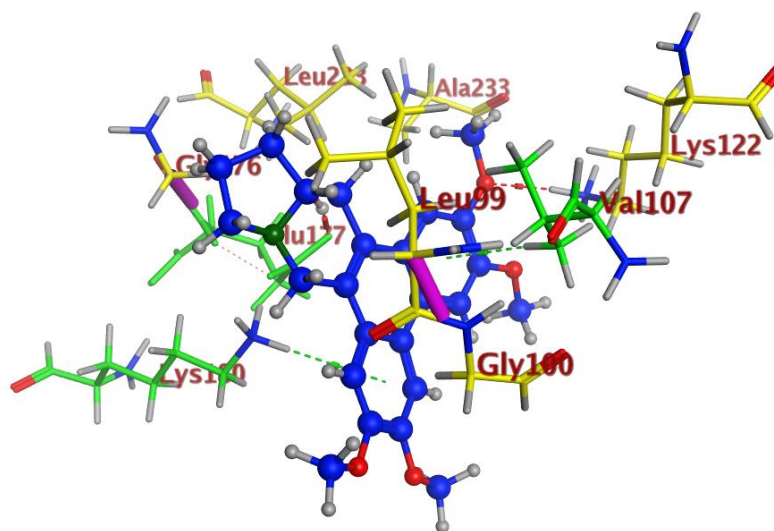
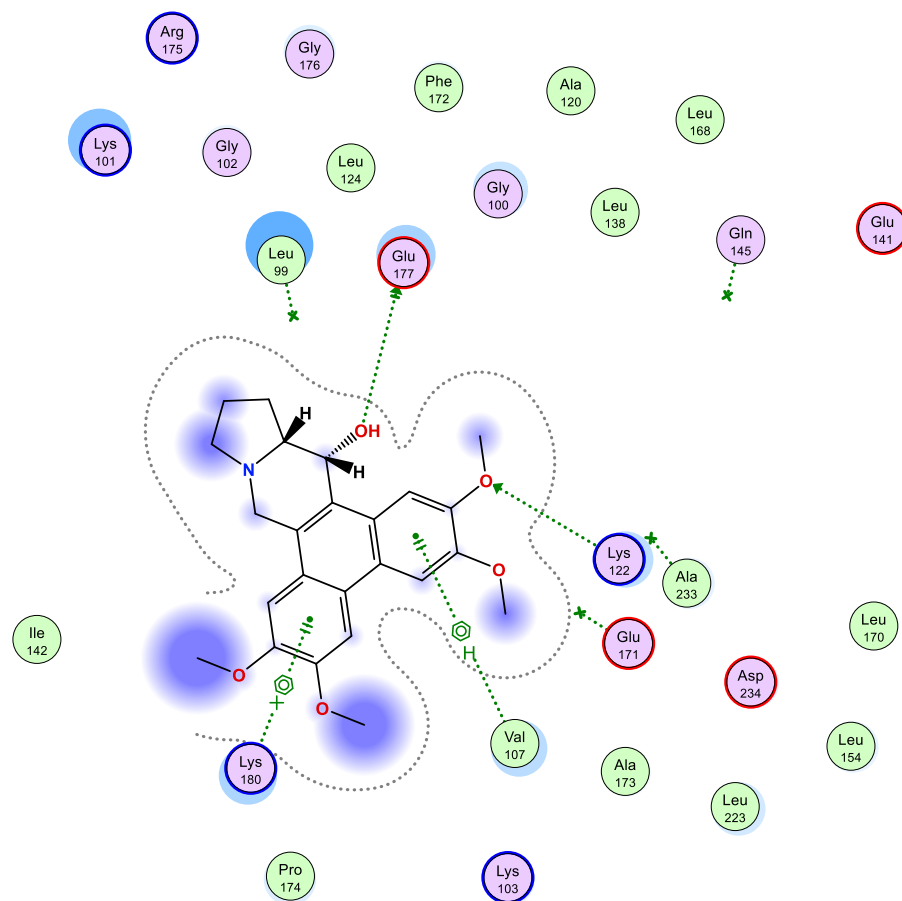
Lys180, Val107, Gly100, Gly176, Glu177, Leu223, Lys103, Glu141



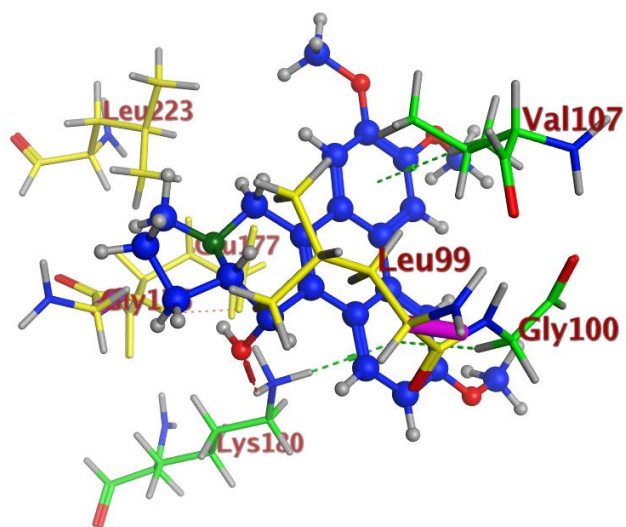
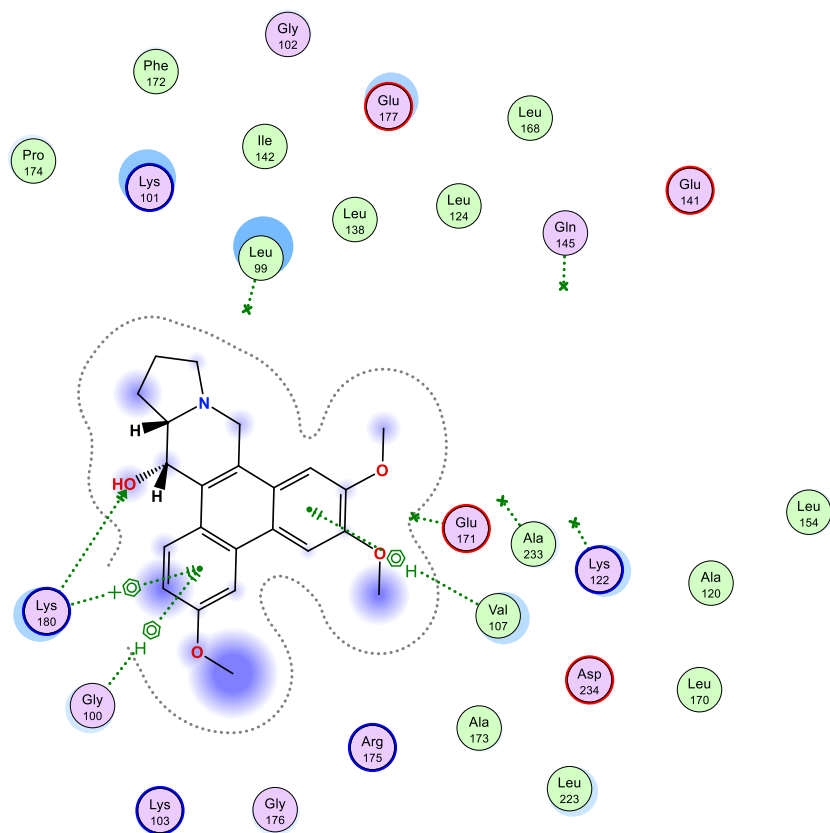
Tylophorine: (Compound 1, pose 2, -7.27822351)



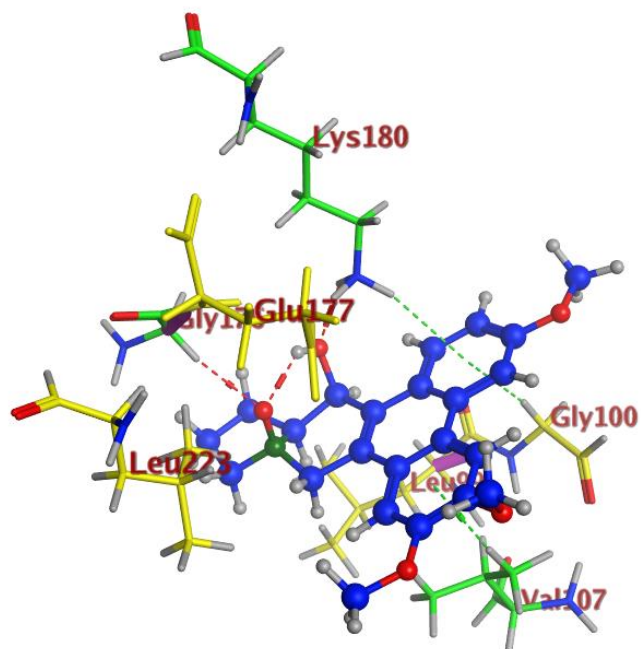
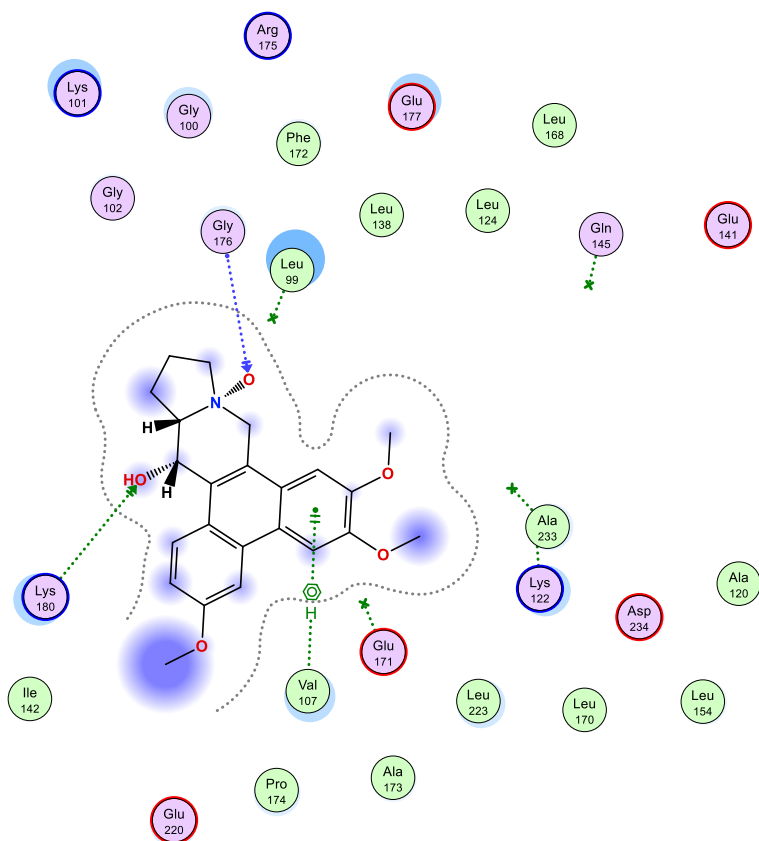
Tylophorinicine: (Compound 2, pose 8, -6.75901651)



Tylophorinine: Compound 3, pose 12 (-6.74933577)

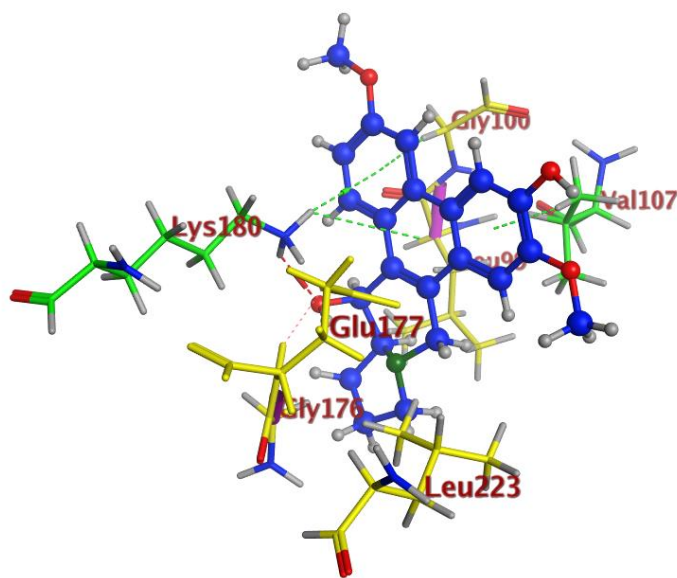
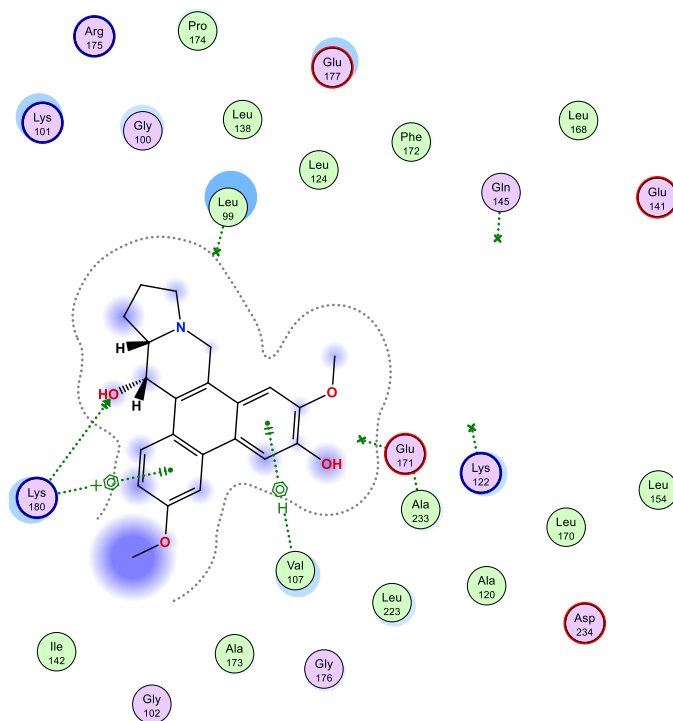


Tylophorinine N-Oxide: Compound 4, pose 17 (-6.87936831)

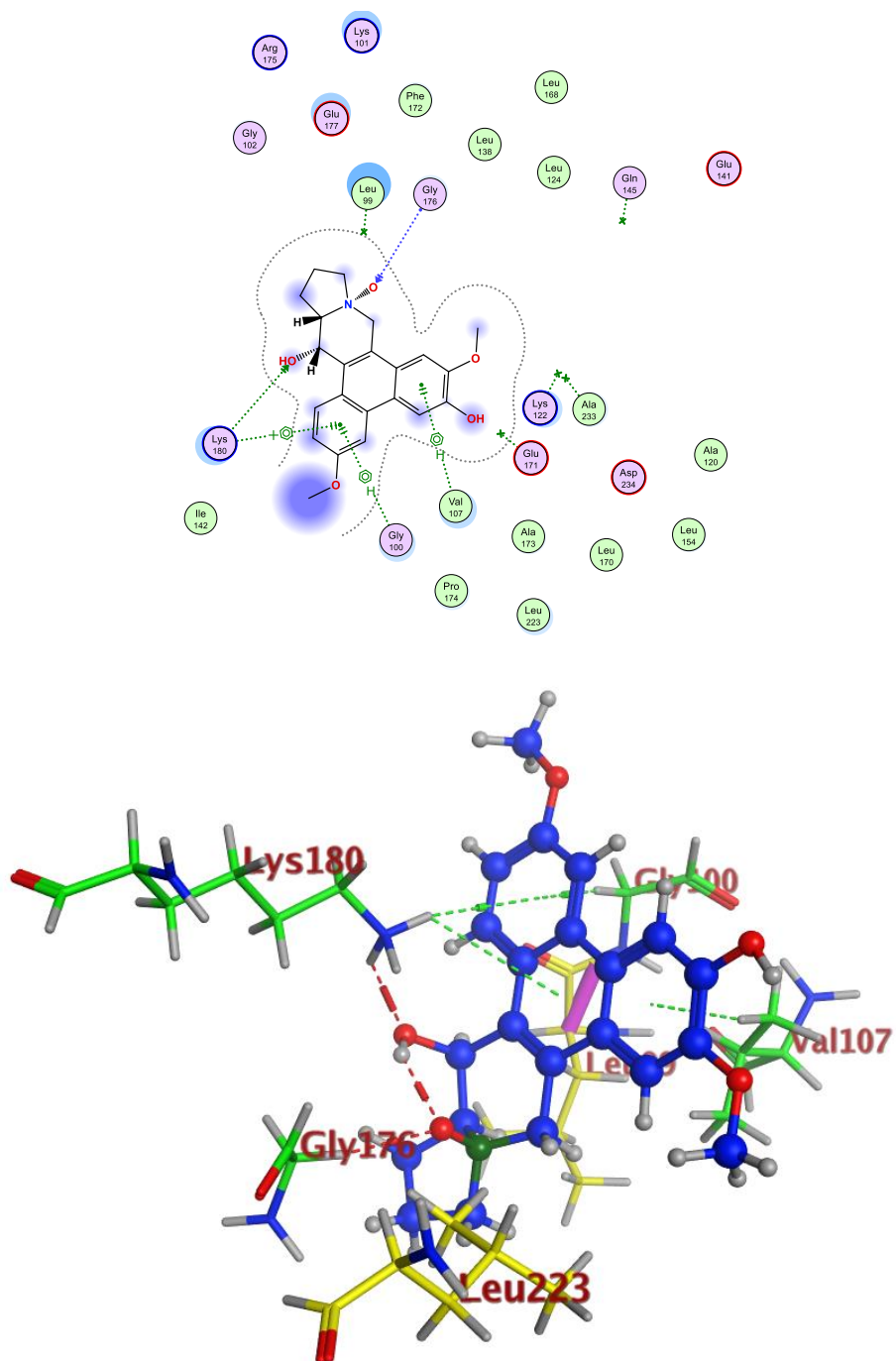


The proton of hydroxy group at C-14 was interacted with the oxygen atom of N-oxide forming intramolecular hydrogen bonding led to stable six membered ring, which might affect the activity.

Tylophorinidine: Compound 5, pose 22 (-6.49451017)

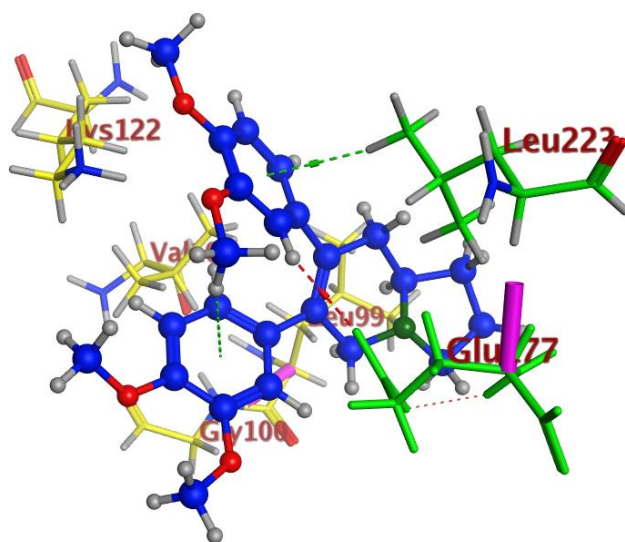
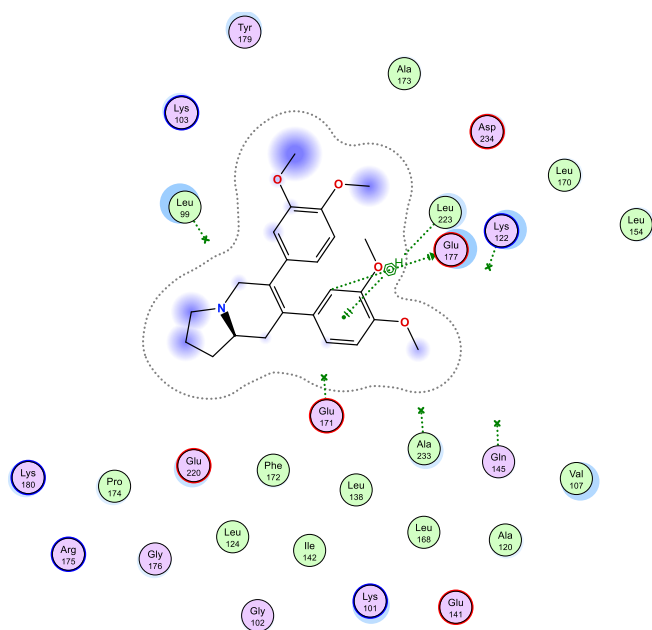


Tylophorinidine-N-Oxide: Compound 6, pose 28 (-6.51967335)

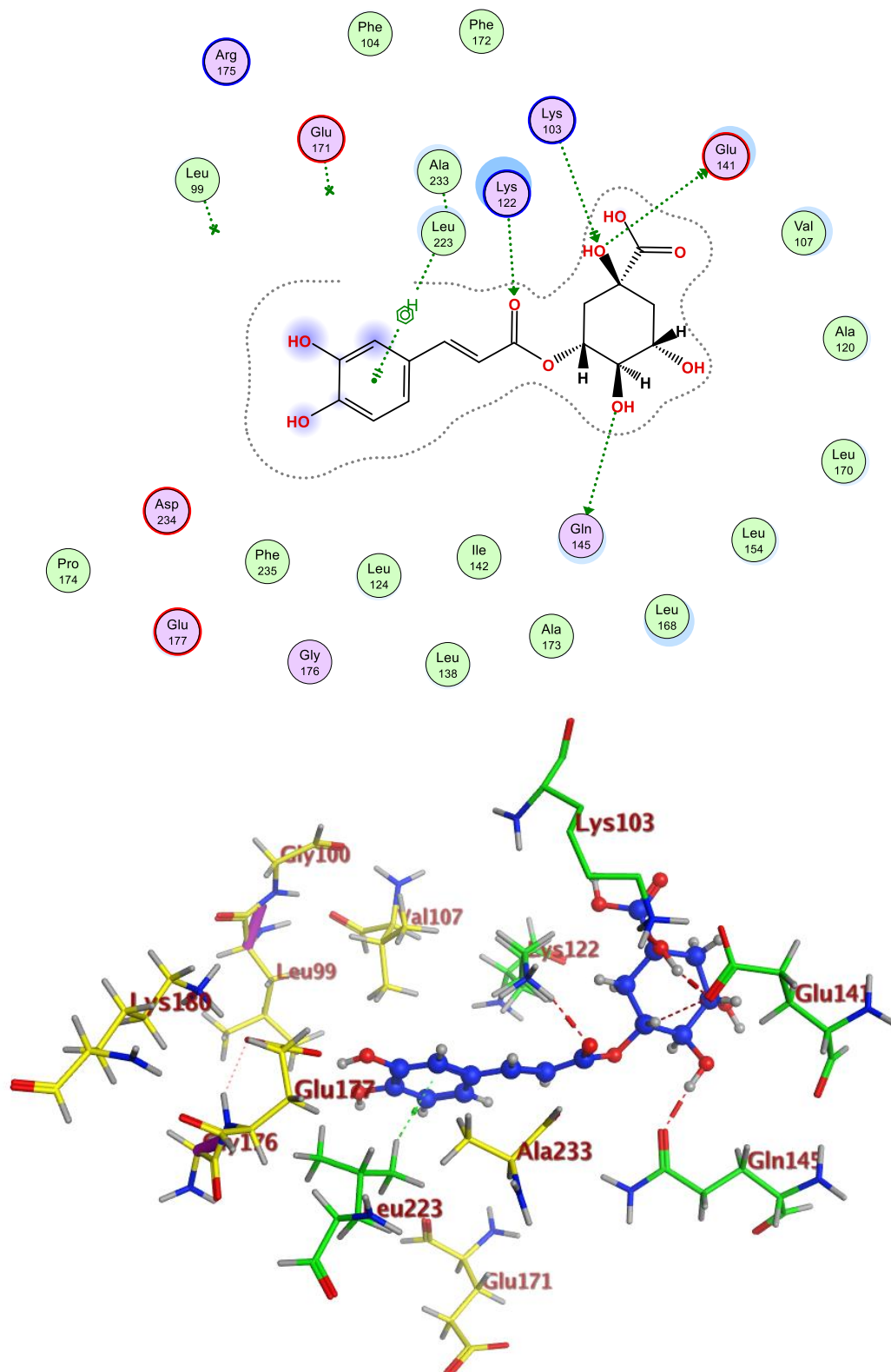


The proton of hydroxy group at C-14 was interacted with the oxygen atom of N-oxide forming intramolecular hydrogen bonding led to stable six membered ring, which might affect the activity.

Septicine: Compound 7, pose 33 (-7.06729412)



Chlorogenic acid: Compound 8, pose 36 (-6.6264019)



Chlorogenic acid methyl ester: Compound 9, pose 42 (-6.00779295)

