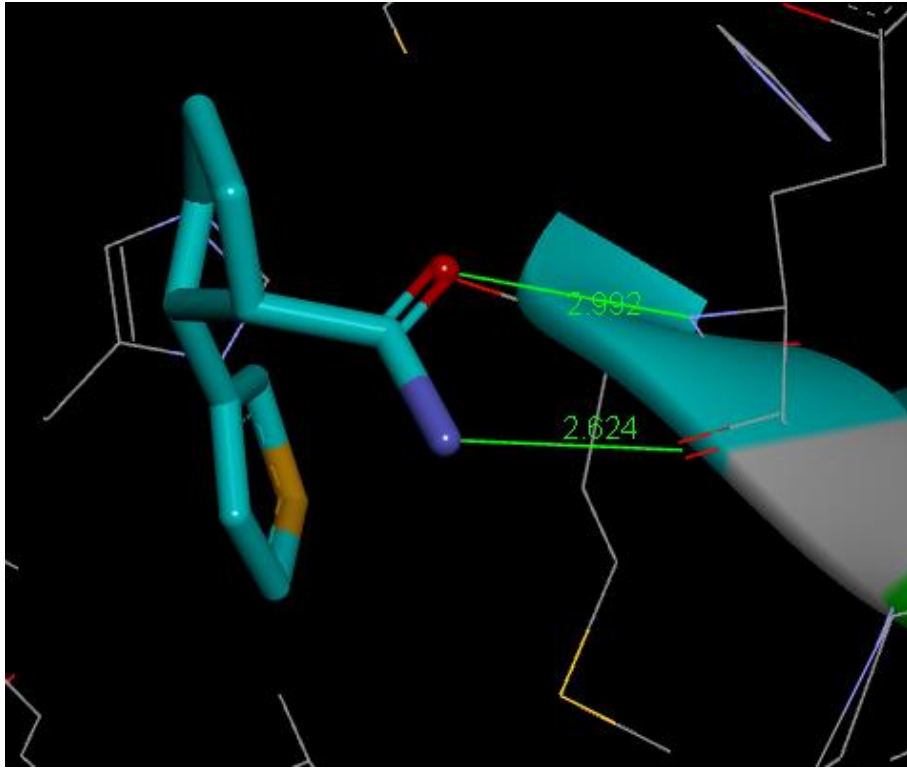
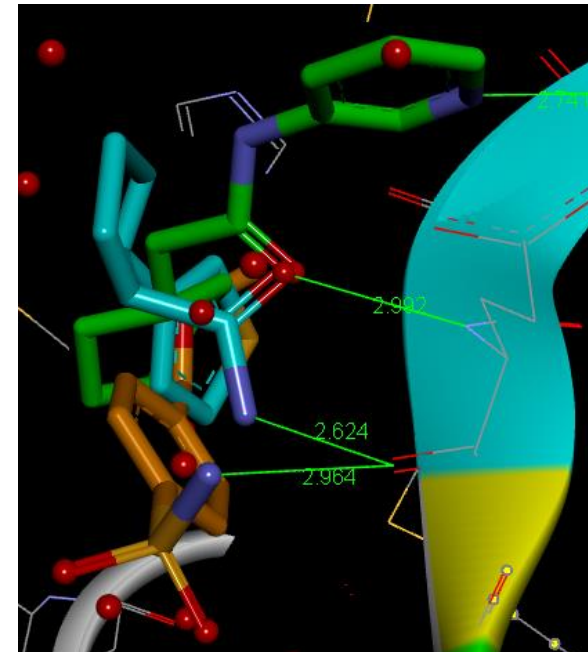


Fragment 874: Amide bidentate interaction with backbone

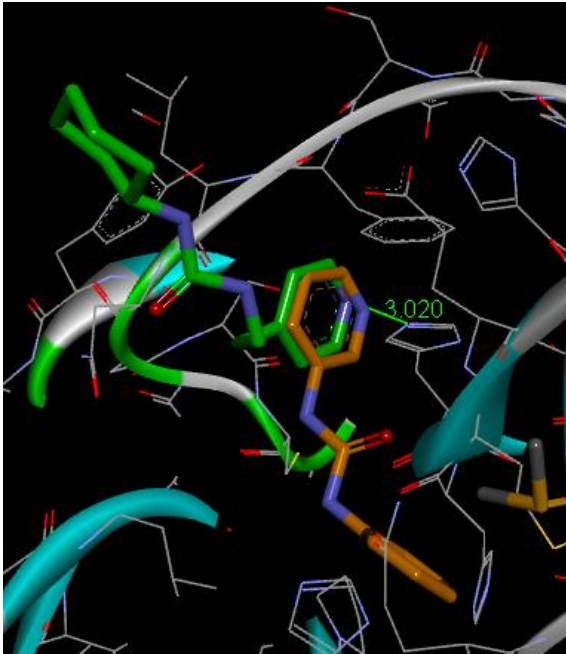


Could be a key interaction
c.f. hinge binder in kinases

Other ligands H-bond with one or other of
these backbone carbonyl or NH

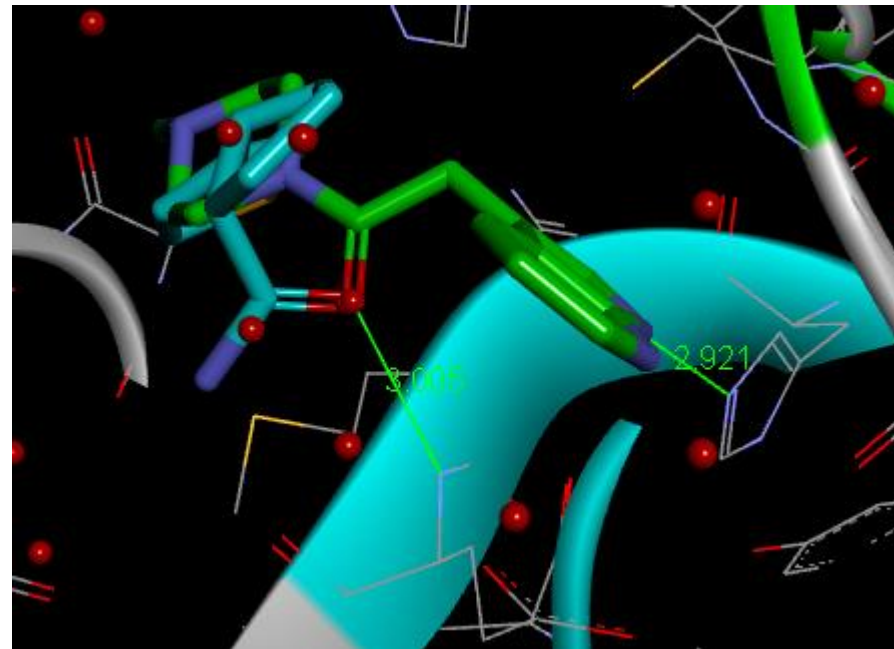


Pyridine to His163 conserved polar interaction



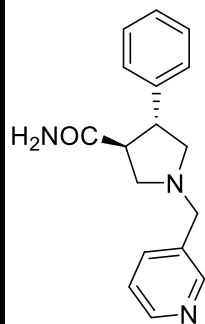
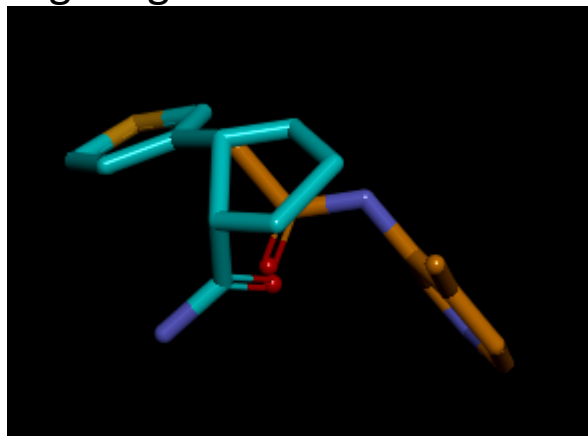
Green ligand appears to make no other productive interactions?

Azaindole His163 interaction

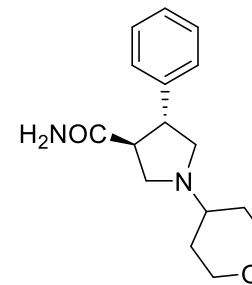
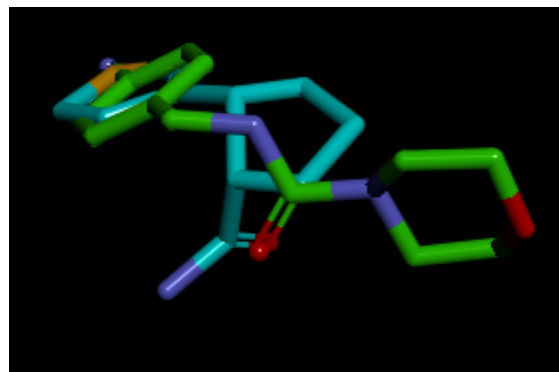


Non-covalent x0874 hybrids

Targeting His163 interaction



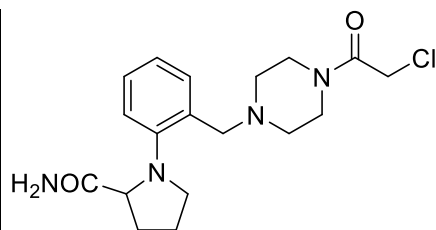
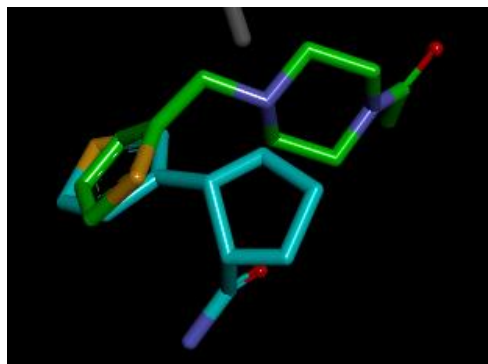
x0874 x x0107



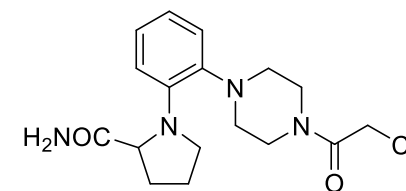
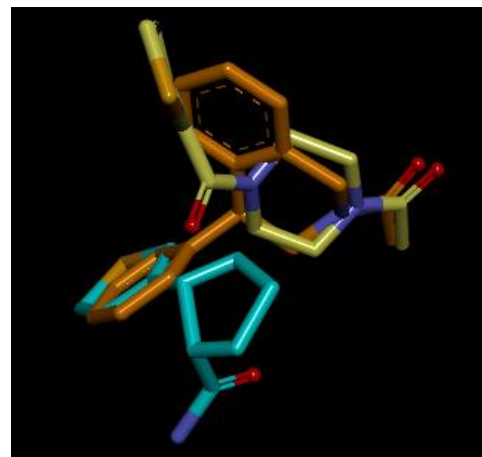
x0874 x x1249

3+2 cycloaddition chemistry

Covalent x0874 Hybrids



x0874 x x1418

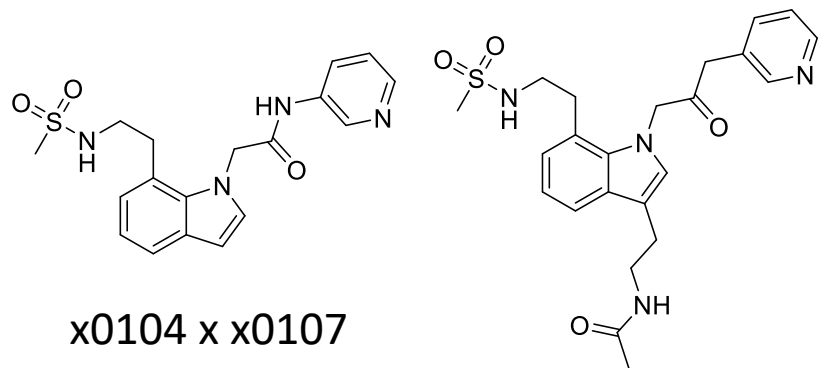
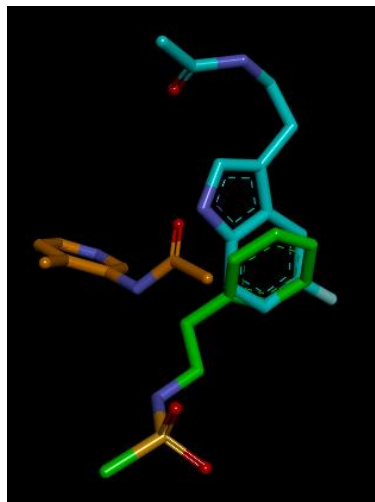


x0874 x x1392 x x1385

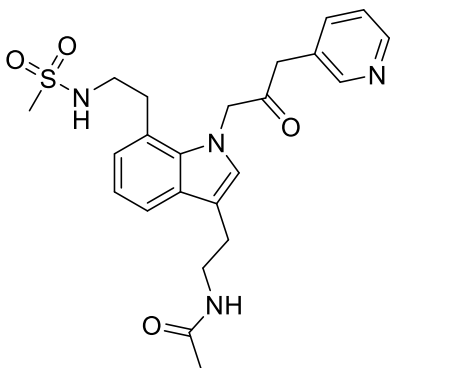
Ortho-substituents may clash, but may still be able to access targeted interactions

All synthetically feasible

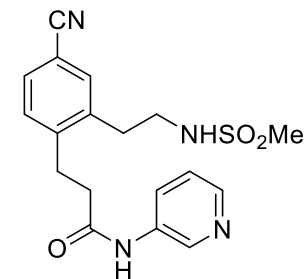
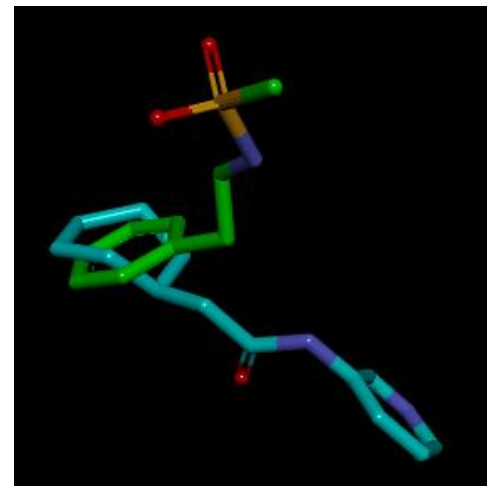
Introducing His163 Interaction into other Fragments (Non-covalent)



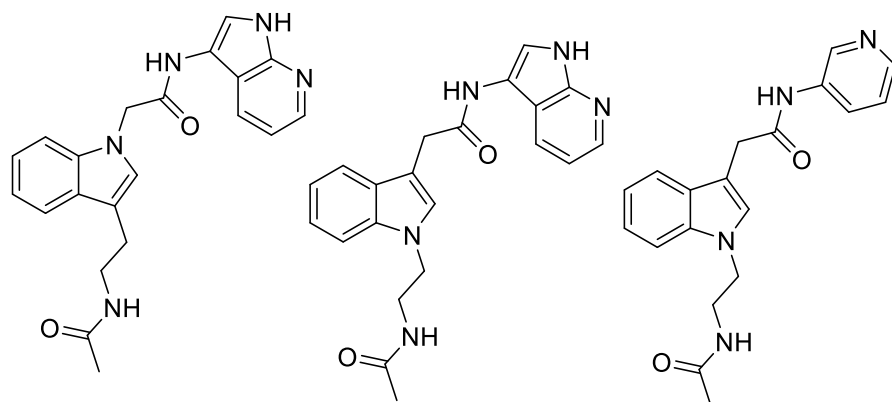
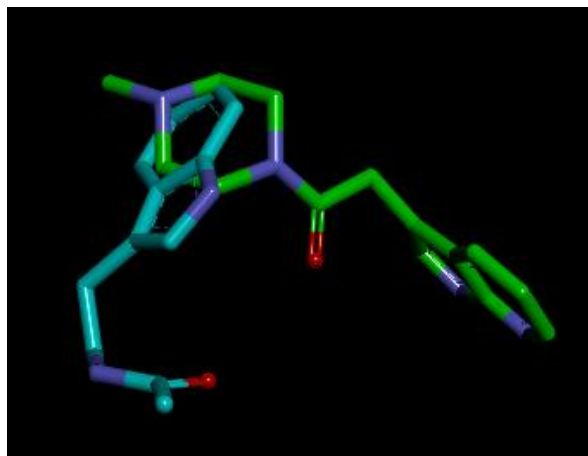
x0104 x x0107



x0104 x x0107 x x0072



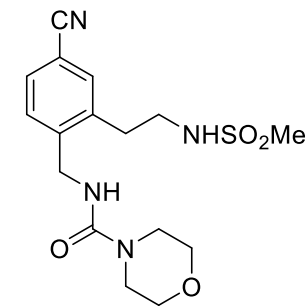
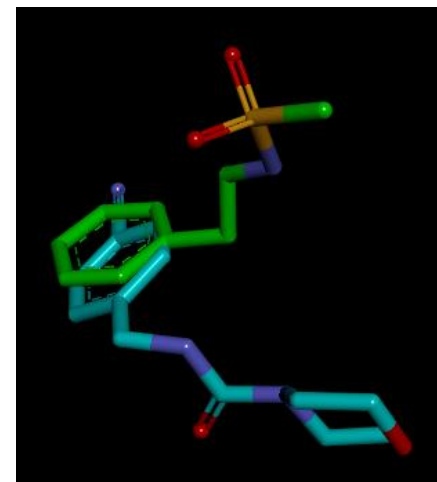
x0072 x x0678



x0104 x x1093

x0104 x x1093

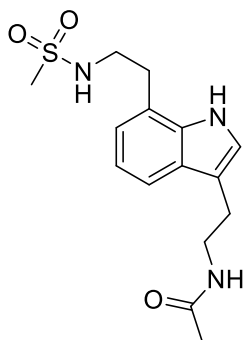
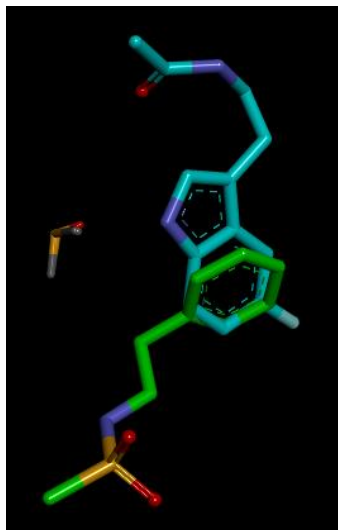
x0104 x x1093



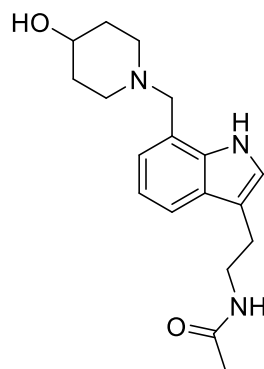
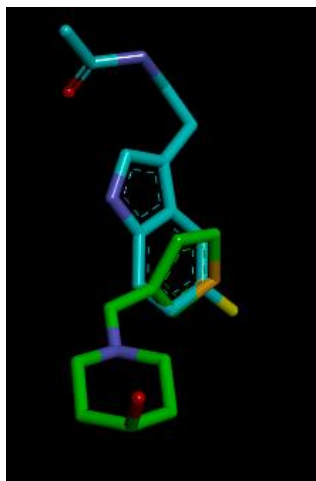
x0072 x x1249

Moving indole nitrogen may aid synthetic accessibility

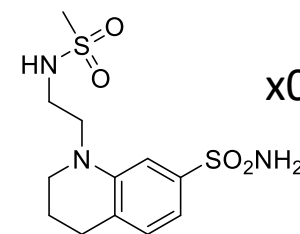
Other Non-Covalent Fragment Merges



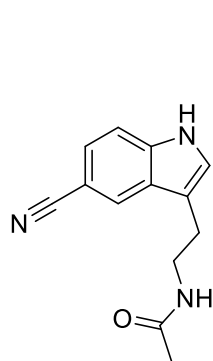
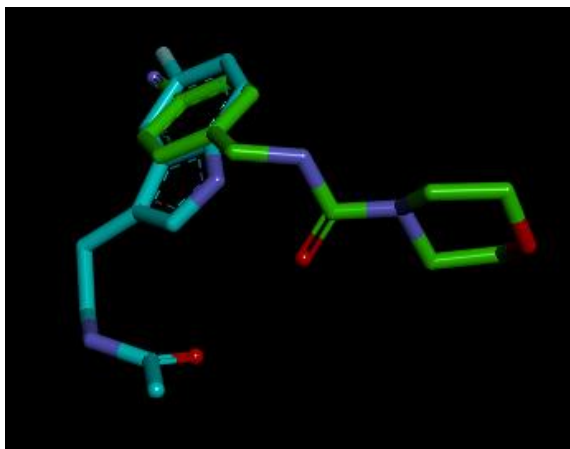
x0104 x x0072



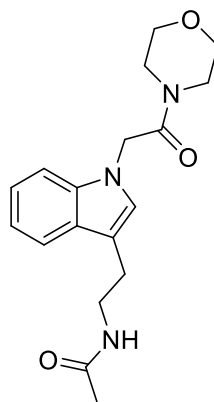
x0104 X x0387



x0072 x x0195

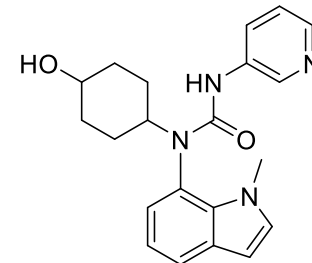
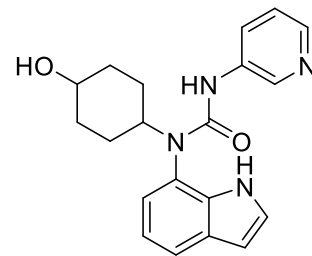
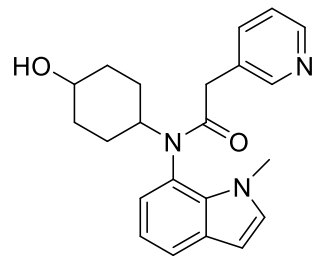
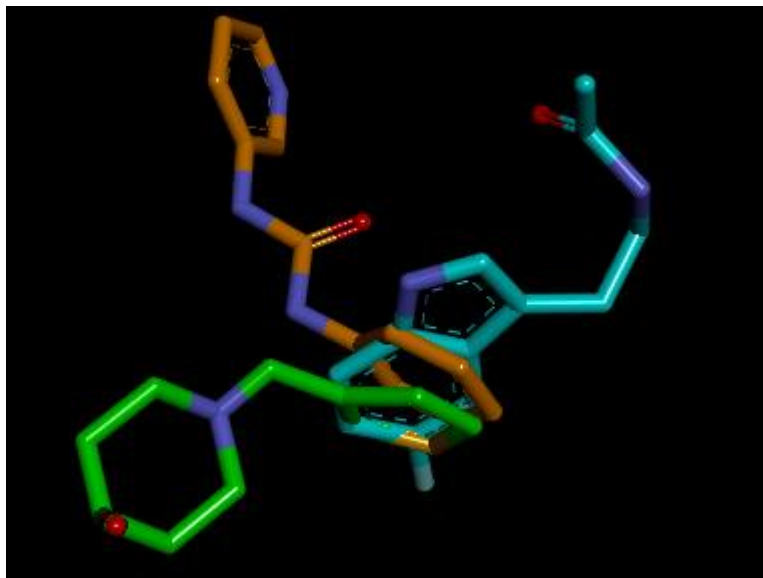


x0104 X x1249



x0104 X x1249

Three-way non-covalent fragment merges

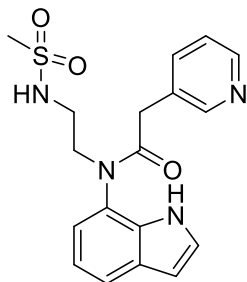
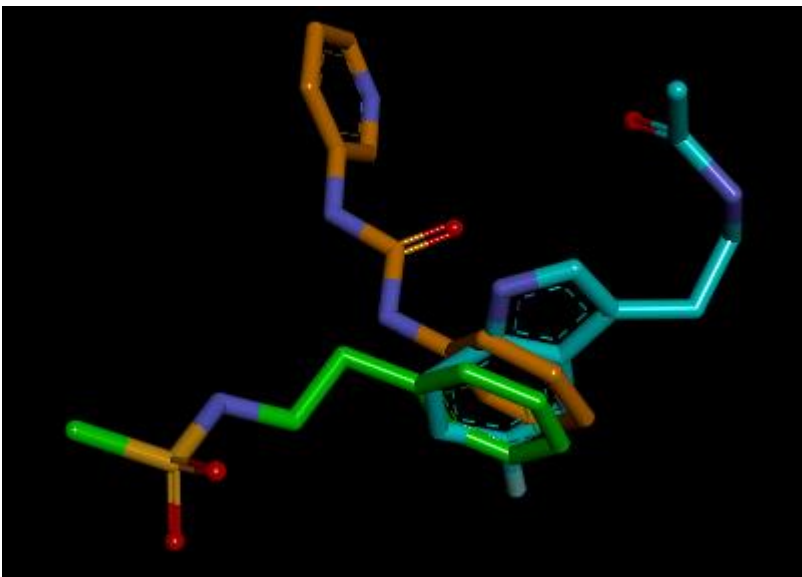


x0104 x x0434 x x1249

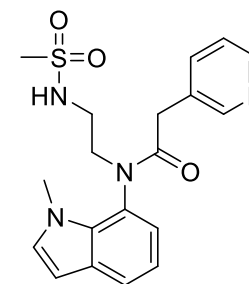
x0104 x x0434 x x1249

x0104 x x0434 x x1249

Pyridyl and sulfonamide groups out of plane of the indole. Methylation of the indole nitrogen may favour this conformation

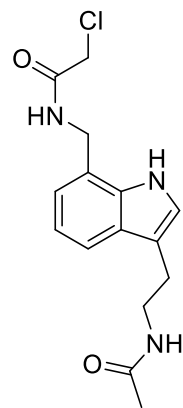
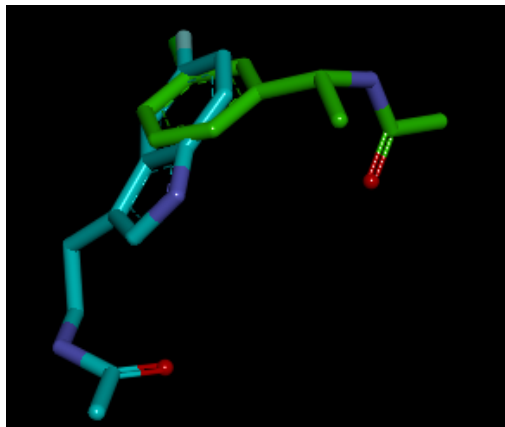


x0104 x x0434 x x0072

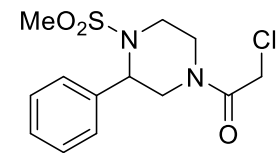
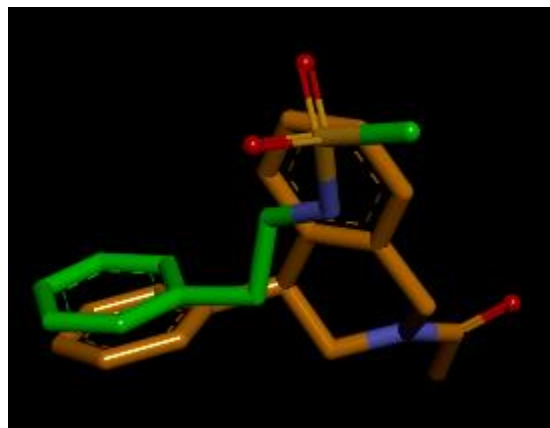


x0104 x x0434 x x0072

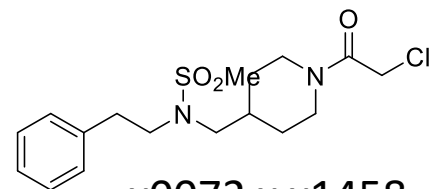
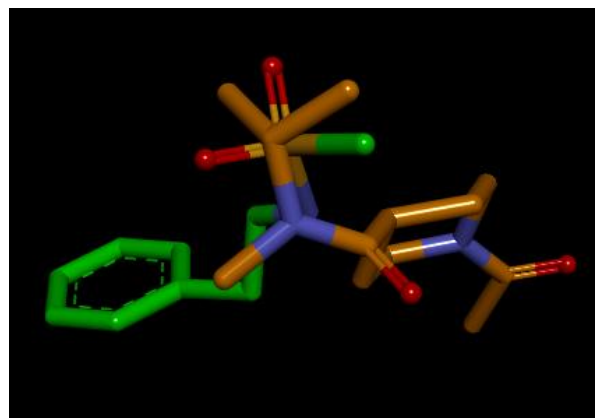
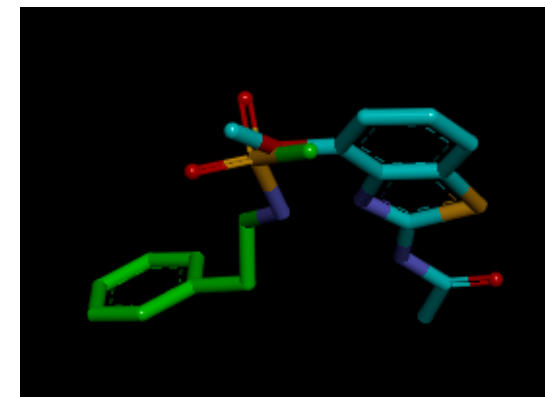
Covalent Merges



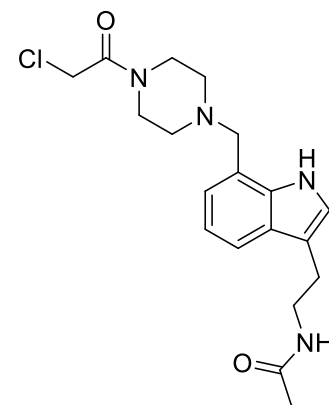
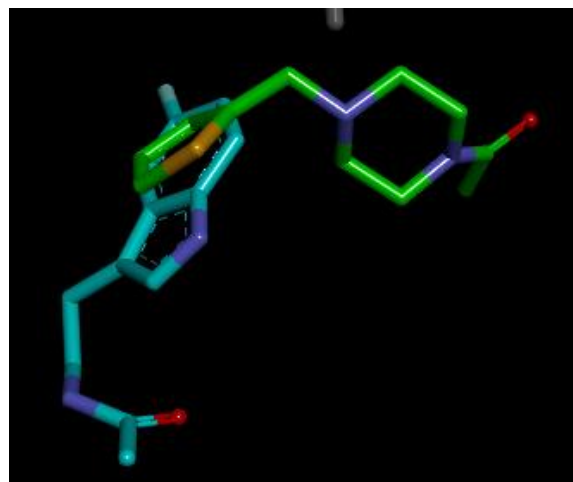
x0104 x x1382



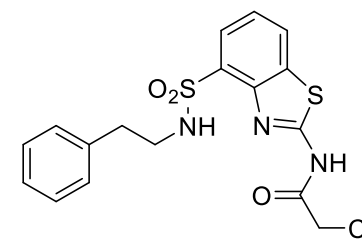
x0072 x x1392



x0072 x x1458



x0104 x x1418



x0072 x x1348