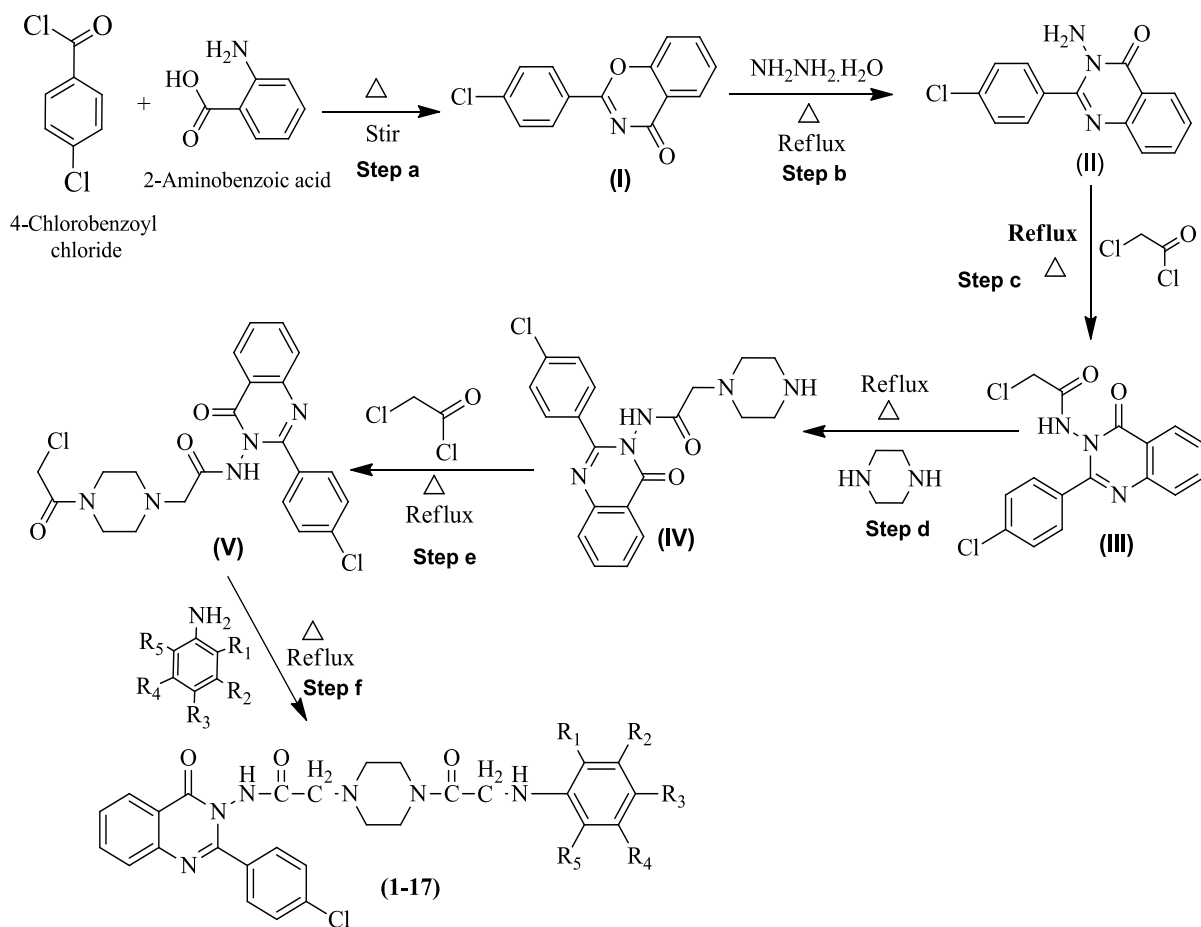


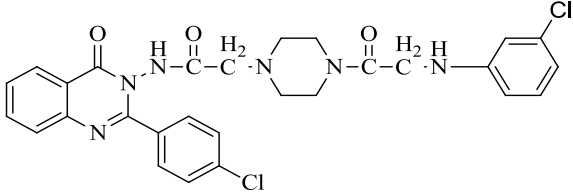
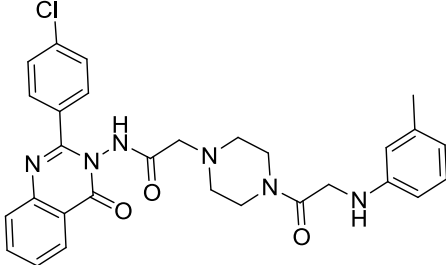
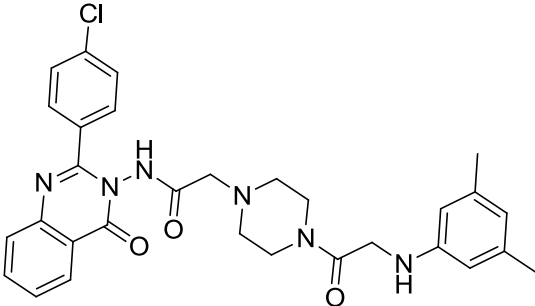
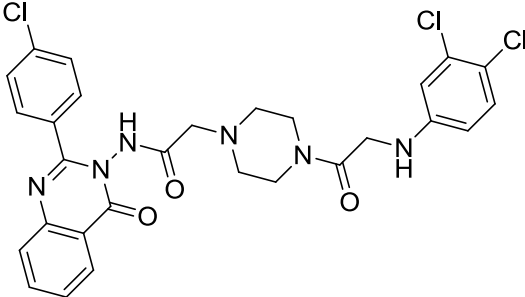
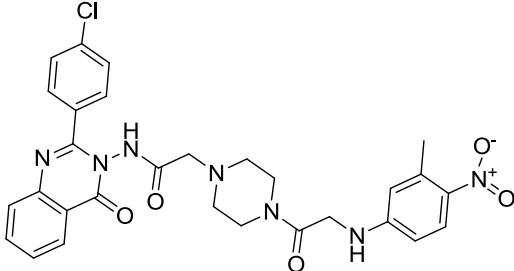
Additional File 2

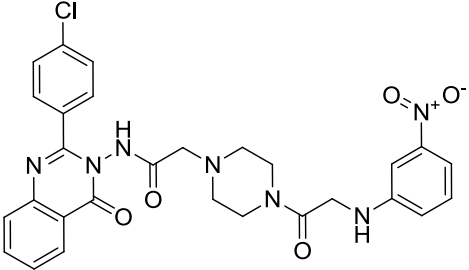
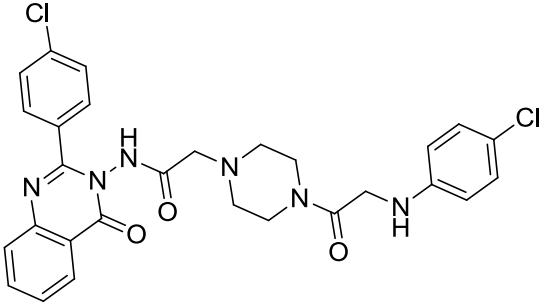
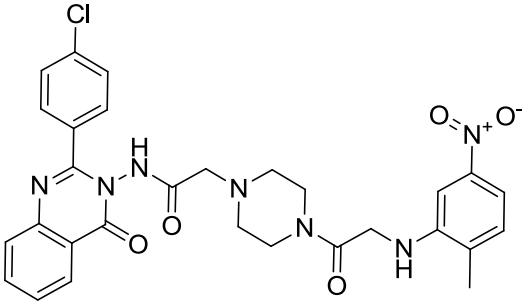
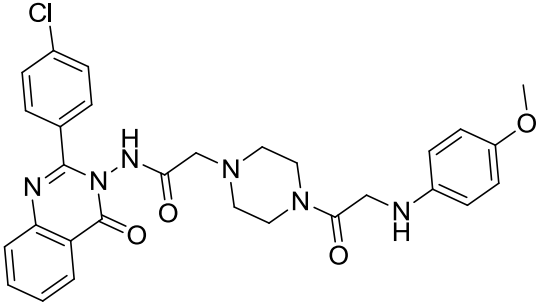
Synthetic scheme

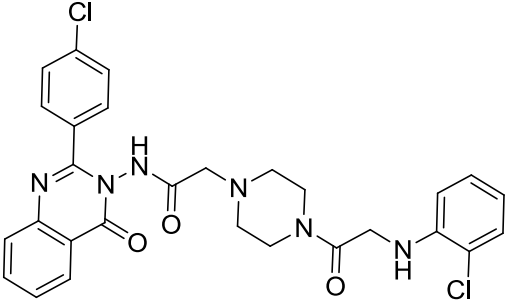
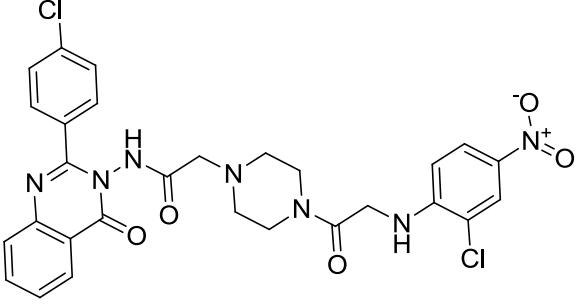
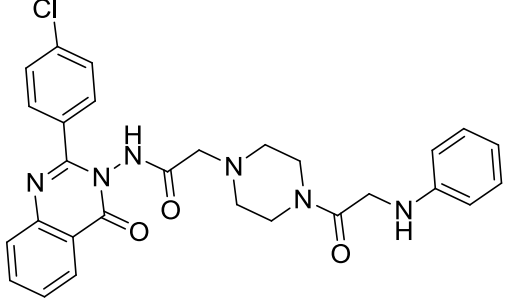
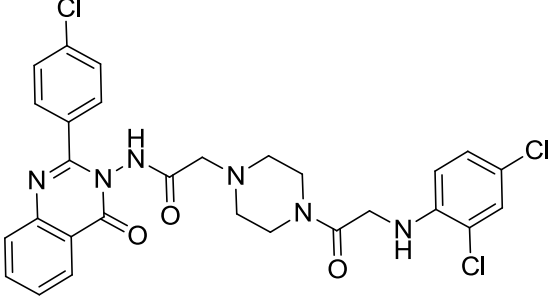


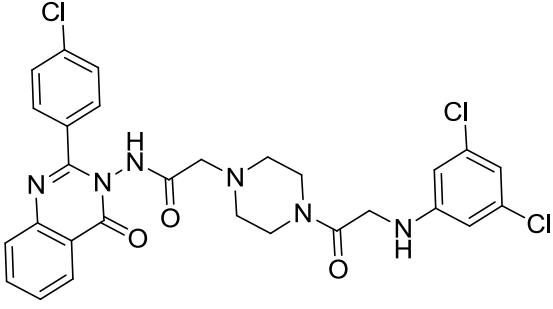
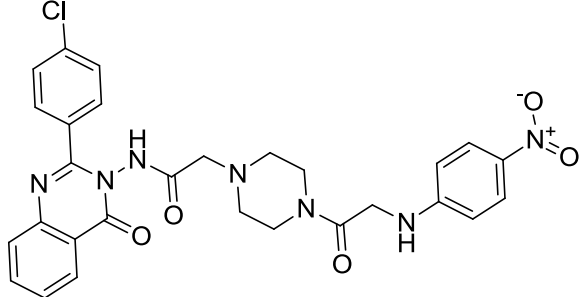
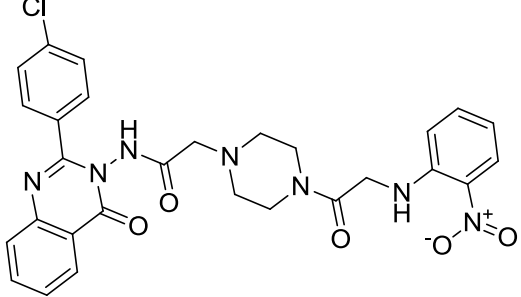
- | | | |
|--|---|--|
| 1. $\text{R}_1=\text{R}_2=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_3=\text{CH}_3$ | 2. $\text{R}_1=\text{R}_3=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_2=\text{Cl}$ | 3. $\text{R}_1=\text{R}_3=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_2=\text{CH}_3$ |
| 4. $\text{R}_1=\text{R}_3=\text{R}_5=\text{H}$; $\text{R}_2=\text{R}_4=\text{CH}_3$ | 5. $\text{R}_1=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_2=\text{R}_3=\text{Cl}$ | 6. $\text{R}_1=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_2=\text{CH}_3$; $\text{R}_3=\text{NO}_2$ |
| 7. $\text{R}_1=\text{R}_3=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_2=\text{NO}_2$ | 8. $\text{R}_1=\text{R}_2=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_3=\text{Cl}$ | 9. $\text{R}_2=\text{R}_3=\text{R}_5=\text{H}$; $\text{R}_1=\text{CH}_3$; $\text{R}_4=\text{NO}_2$ |
| 10. $\text{R}_1=\text{R}_2=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_3=\text{OCH}_3$ | 11. $\text{R}_2=\text{R}_3=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_1=\text{Cl}$ | 12. $\text{R}_2=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_1=\text{Cl}$; $\text{R}_3=\text{NO}_2$ |
| 13. $\text{R}_1=\text{R}_2=\text{R}_3=\text{R}_4=\text{R}_5=\text{H}$ | 14. $\text{R}_2=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_1=\text{R}_3=\text{Cl}$ | 15. $\text{R}_1=\text{R}_3=\text{R}_5=\text{H}$; $\text{R}_2=\text{R}_4=\text{Cl}$ |
| 16. $\text{R}_1=\text{R}_2=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_3=\text{NO}_2$ | 17. $\text{R}_2=\text{R}_3=\text{R}_4=\text{R}_5=\text{H}$; $\text{R}_1=\text{NO}_2$ | |

Compound	Chemical structure
1	N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-(p-tolyl-amino)acetyl)piperazin-1-yl)acetamide

2	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-((3-chlorophenyl)amino)acetyl)- piperazin-1-yl)acetamide
3	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-(m-tolyl-amino)acetyl)piperazin-1-yl)acetamide
4	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((3,5-dimethylphenyl)amino)-acetyl)piperazin-1-yl)acetamide
5	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((3,4-dichlorophenyl)-amino)acetyl)piperazin-1-yl)acetamide
6	 N-(2-(4-chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((3-methyl-4-nitrophenyl)amino)acetyl) piperazin-1-yl)acetamide

7	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((3-nitrophenyl)amino)-acetyl)piperazin-1-yl)acetamide
8	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((4-chlorophenyl)amino)-acetyl)piperazin-1-yl)acetamide
9	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((2-methyl-5-nitrophenyl)amino)-acetyl)piperazin-1-yl)acetamide
10	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((4-methoxyphenyl)amino)-acetyl)piperazin-1-yl)acetamide

11	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((2-chlorophenyl)amino)-acetyl)piperazin-1-yl)acetamide
12	 2-(4-(2-((2-Chloro-4-nitrophenyl)amino)acetyl)piperazin-1-yl)-N-(2-(4-chloro-phenyl)-4-oxoquinazolin-3(4H)-yl)acetamide
13	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-(phenylamino)acetyl)piperazin-1-yl)acetamide
14	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((2,4-dichlorophenyl)amino)-acetyl)piperazin-1-yl)acetamide

15	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((3,5-dichlorophenyl)amino)-acetyl)piperazin-1-yl)acetamide
16	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((4-nitrophenyl)amino)acetyl)-piperazin-1-yl)acetamide
17	 N-(2-(4-Chlorophenyl)-4-oxoquinazolin-3(4H)-yl)-2-(4-(2-((2-nitrophenyl)amino)acetyl)-piperazin-1-yl)acetamide