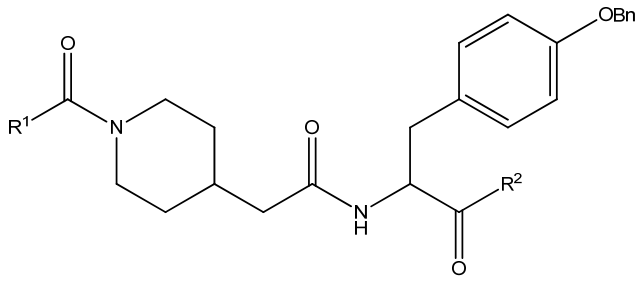
CLAIMS

What is claimed is:

1. A compound having Formula I



Formula I

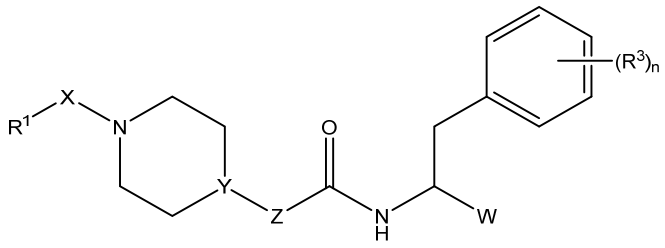
wherein,

R^1 is C_1-C_8 alkyl, C_1-C_8 alkenyl, C_1-C_8 alkynyl, C_1-C_8 alkoxyl, C_1-C_8 heteroalkyl, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, or phenyl, any of which is optionally substituted with one or more carbonyl (C=O), C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxyl, amino, -NR^6R^7, -$C(O)NR^6R^7$, C_1-C_6 alkylhydroxy, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, phenyl, halo, hydroxyl, thiol, cyano, nitro, or radiolabeled isotope;

R^2 is amino, hydroxyl, C_1-C_8 alkyl, or C_1-C_8 alkoxyl, where the amino is optionally substituted with one or more C_1-C_6 alkyl, C_1-C_6 alkoxyl, C_1-C_6 alkyl$C_{3\text{-}6}$cycloalkyl, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, or phenyl; and

R^6 and R^7 are independently selected from hydrogen, C_1-C_8 alkyl, C_1-C_8 alkenyl, C_1-C_8 alkynyl, C_1-C_8 alkoxide, C_1-C_8 carboxylate, C_1-C_8 haloalkyl, C_1-C_8 haloalkenyl, C_1-C_8 haloalkynyl, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, phenyl, or C_1-C_3 alkylheteroaryl; any of which is optionally substituted with a halogen; and n is 1-5.

2. A compound having Formula III



Formula III

wherein,

X is C(O), S(O), or SO_2;

Y is CH, CR^6, or N;

Z is CH_2, CR^6R^7, or NH;

W is cyano, C_2-C_4 alkyne, or a triazole, tetrazole or oxaxole optionally substituted with one or more carbonyl (C=O), C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxyl, amino, -NR^6R^7, -$C(O)NR^6R^7$, C_1-C_6 alkylhydroxy, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, aryl, halo, hydroxyl, thiol, cyano, nitro, or radiolabeled isotope;

R^1 is C_1-C_8 alkyl, C_1-C_8 alkenyl, C_1-C_8 alkynyl, C_1-C_8 alkoxyl, C_1-C_8 heteroalkyl, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, or phenyl, any of which is optionally substituted with one or more carbonyl (C=O), C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxyl, amino, -NR^6R^7, -$C(O)NR^6R^7$, C_1-C_6 alkylhydroxy, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, phenyl, halo, hydroxyl, thiol, cyano, nitro, or radiolabeled isotope;

each R^3 is, independently, hydrogen, halogen, OH, C_1-C_8 alkyl, C_1-C_8 alkoxyl, phenyl, O-phenyl, or O-CH_2phenyl; and

R^6 and R^7 are independently selected from hydrogen, C_1-C_8 alkyl, C_1-C_8 alkenyl, C_1-C_8 alkynyl,C_1-C_8 alkoxide, C_1-C_8 carboxylate, C_1-C_8 haloalkyl, C_1-C_8 haloalkenyl, C_1-C_8 haloalkynyl, C_3-C_6 cycloalkyl, C_3-C_6 heterocycloalkyl, or phenyl; any of which is optionally substituted with a halogen; and n is 1-5.

3. The compound of claim 2, wherein Z is CH_2.
4. The compound of claim 2, wherein Z is NH.
5. The compound of claim 2, wherein Y is CH_2.
6. The compound of claim 2, wherein Y is N.
7. The compound of claim 2, wherein X is C(O).
8. The compound of claim 2, wherein X is SO_2.
9. The compound of any one of the previous claims, wherein R^1 is C_1-C_8 alkoxyl.
10. The compound of any one of claims 1-8, wherein R^1 is phenyl.
11. The compound of any one of claims 1-8, wherein R^1 is C_{1-3} alkyl substituted with phenyl, wherein the phenyl is optionally substituted with one or more C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxyl, amino, halo, hydroxyl, thiol, cyano, nitro, or radiolabeled isotope.
12. The compound of any one of claims 1-8, wherein R^1 is CH_2CH_2Ph, $CH_2CH_2CH_2Ph$, $CH(CH_2)Ph$, $C(CH_3)_2Ph$, or $CH_2CH(Ph)_2$.
13. The compound of any one of claims 1-8, wherein R^1 is CH_2CH_2Ph, where the phenyl is substituted with one or more C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxyl, amino, halo, hydroxyl, thiol, cyano, nitro, or radiolabeled isotope.
14. The compound of any one of claims 1-8, wherein R^1 is a C_{1-3} alkyl substituted with a phenyl substituted with one or more halogen, methoxyl, ethoxyl, propoxyl, cyano, and CF_3, or R^1 is a C_{1-3} alkyl substituted with a phenyl substituted with a dioxole.

15. The compound of any one of claims 1-8, wherein R^1 is C_{1-3} alkenyl substituted with phenyl, wherein the phenyl is optionally substituted with one or more C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxyl, amino, halo, hydroxyl, thiol, cyano, nitro, or radiolabeled isotope.

16. The compound of any one of claims 1-8, wherein R^1 is CH=CHPh, where the phenyl is substituted with one or more C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxyl, amino, halo, hydroxyl, thiol, cyano, nitro, or radiolabeled isotope.

17. The compound of any one of claims 1-8, wherein R^1 is C_1-C_8 heteroalkyl, C_3-C_6 heterocycloalkyl, which is optionally substituted with one or more C=O, C_{1-6} alkyl, and phenyl.

18. The compound of any one of claims 1-8, wherein R^1 is pyrrolidine substituted with $C(O)CH_3$.

19. The compound of claim 1, wherein R^2 is OMe or OH.

20. The compound of claim 1, wherein R^2 is unsubstituted amino, amino substituted with C_1-C_6 alkyl, amino substituted with C_3-C_6 cycloalkyl, or amino substituted with C_1-C_6 alkyl C_{3-6}cycloalkyl.

21. The compound of claim 3, wherein R^3 is hydrogen or OH.

22. The compound of claim 3, wherein R^3 is Obenzyl.

23. A pharmaceutical composition for treating cancer comprising a therapeutically effective amount of a compound of any one of the preceding claims and a pharmaceutical carrier.

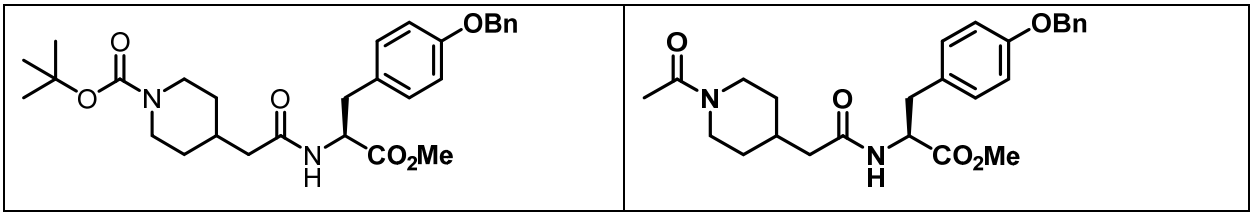
24. The compound of any one of claims 1-22 for use in therapy.

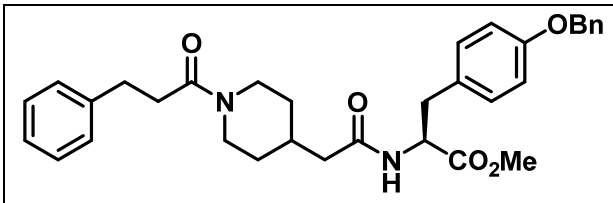
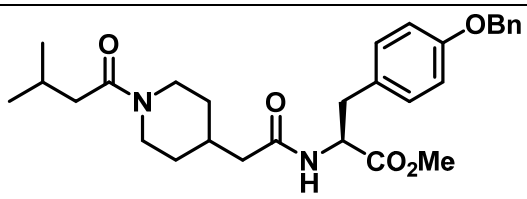
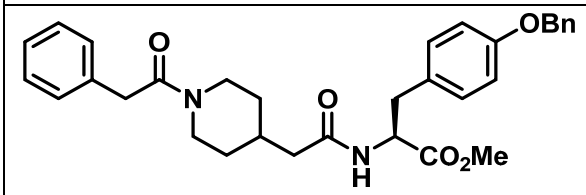
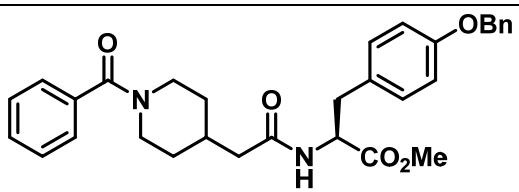
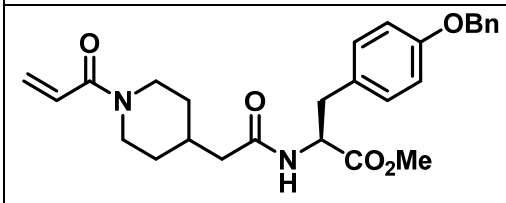
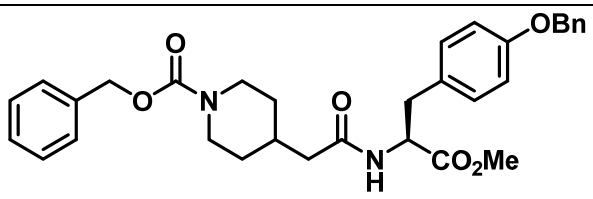
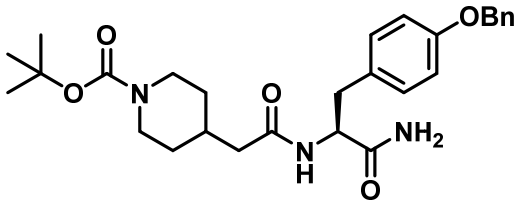
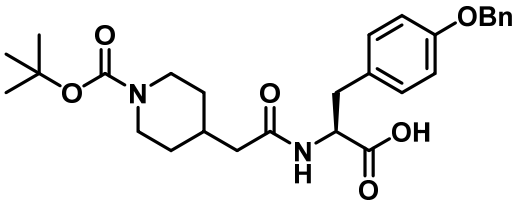
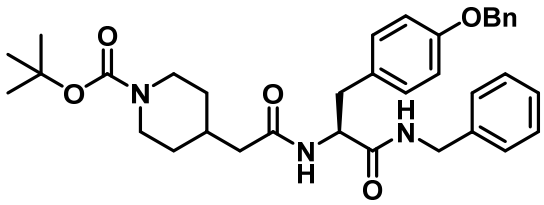
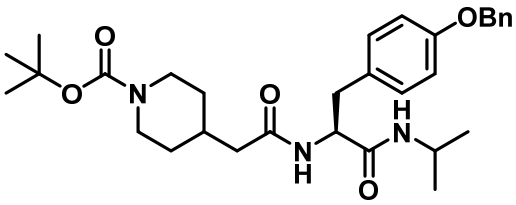
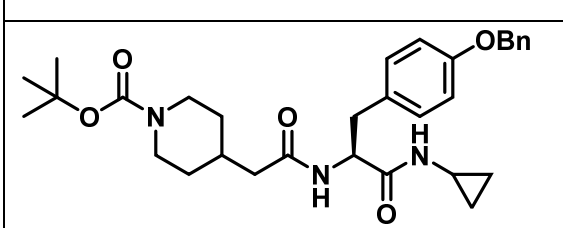
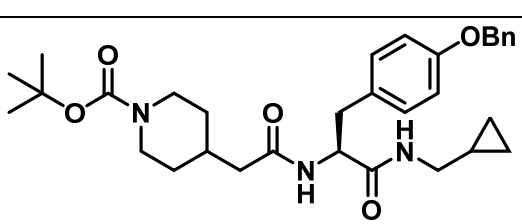
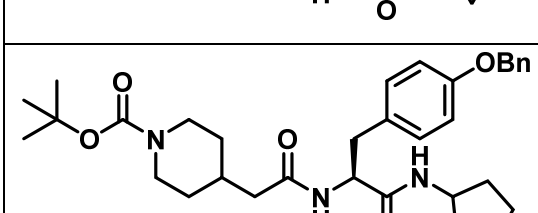
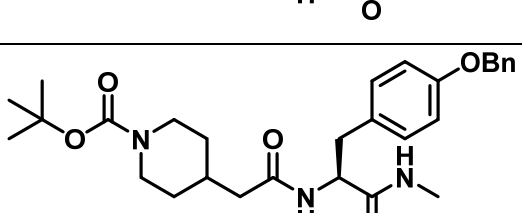
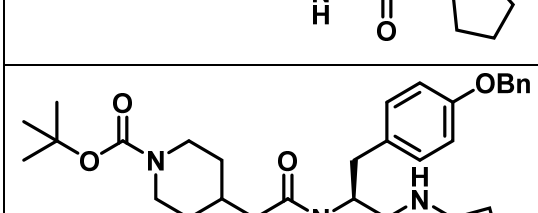
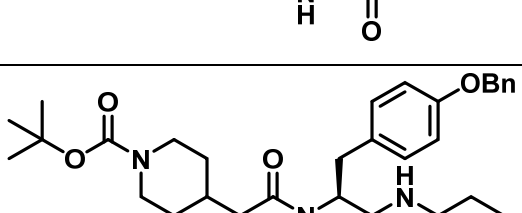
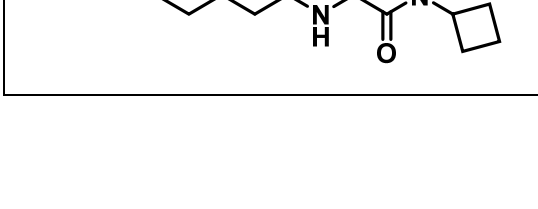
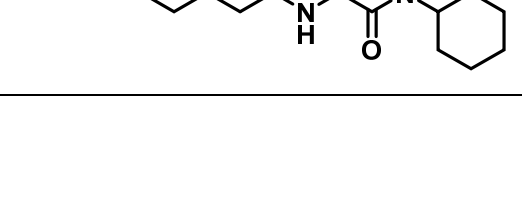
25. Use of the compound of any one of claims 1-22 in the manufacture of a medicament for the treatment of cancer in a subject in need thereof.

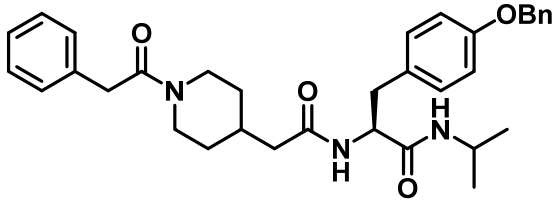
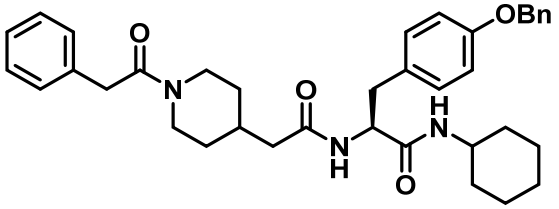
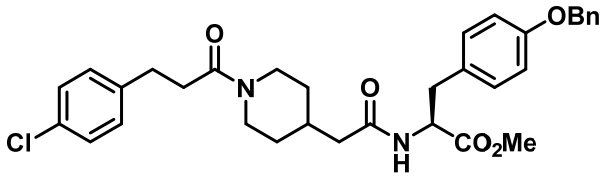
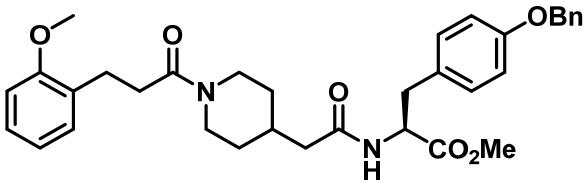
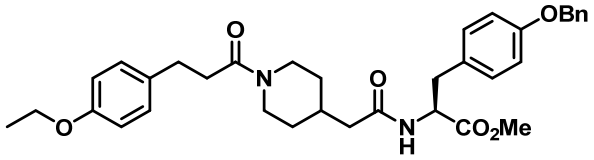
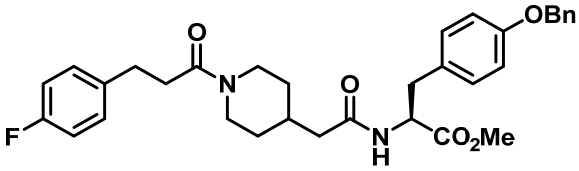
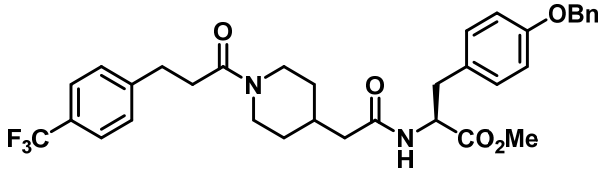
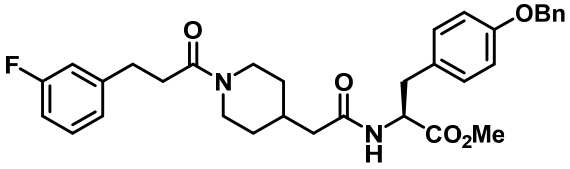
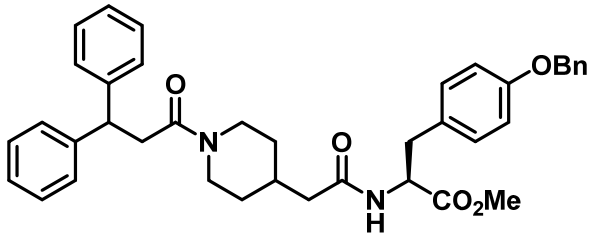
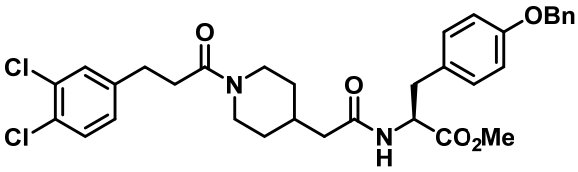
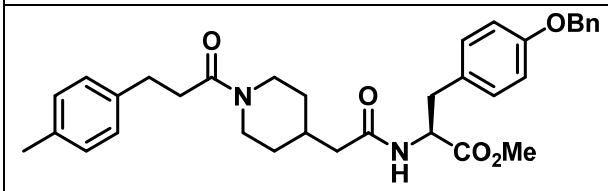
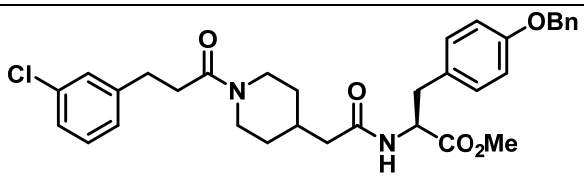
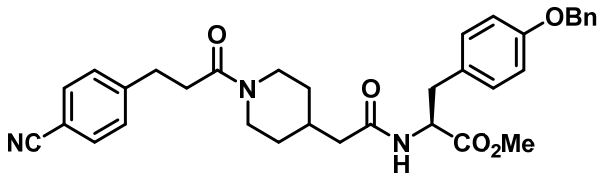
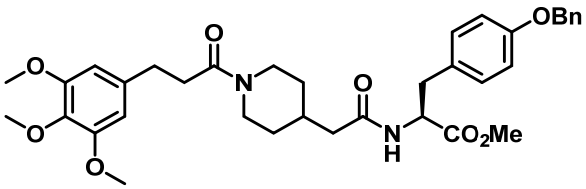
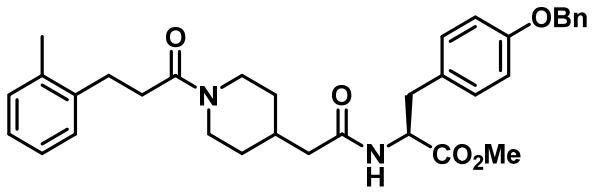
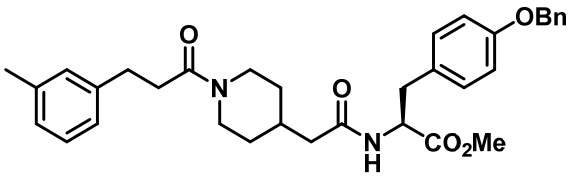
26. The use of claim 25, wherein the cancer is selected from bladder cancer, brain cancer, breast cancer, colorectal cancer, cervical cancer, gastrointestinal cancer, genitourinary cancer, head and neck cancer, ovarian cancer, pancreatic cancer, prostate cancer, renal cancer, skin cancer, and testicular cancer.

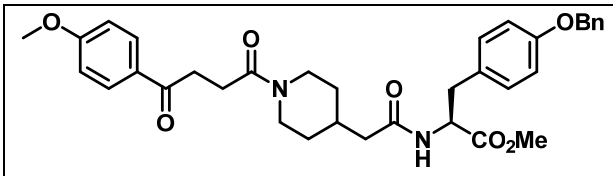
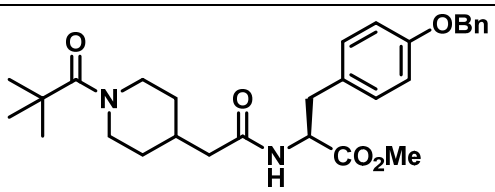
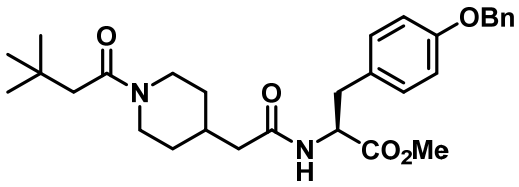
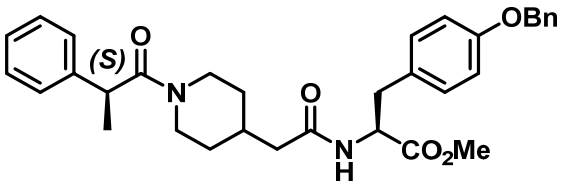
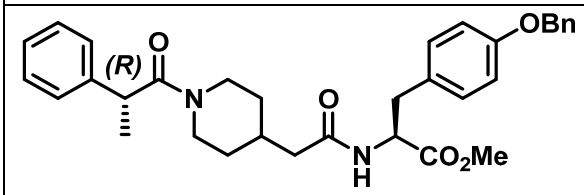
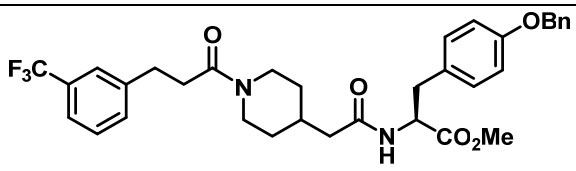
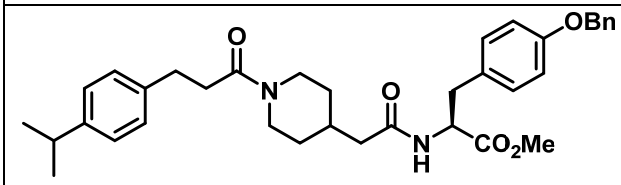
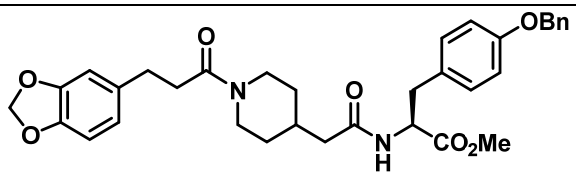
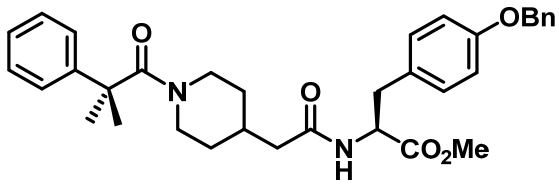
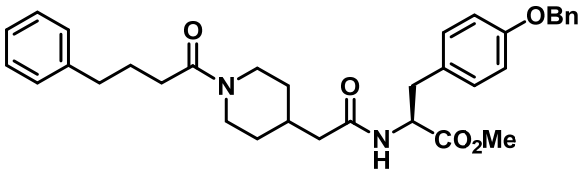
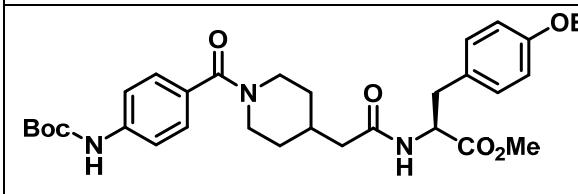
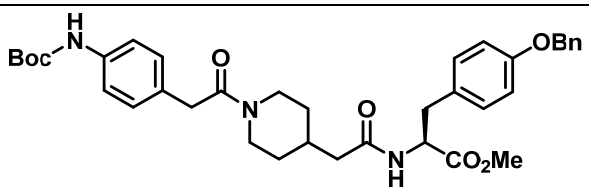
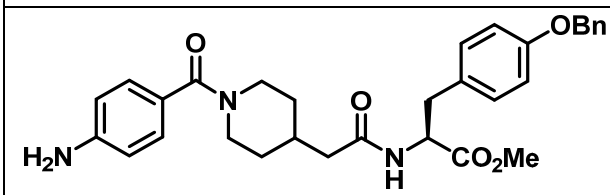
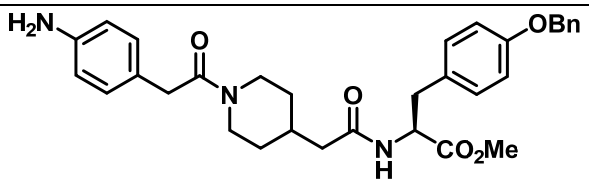
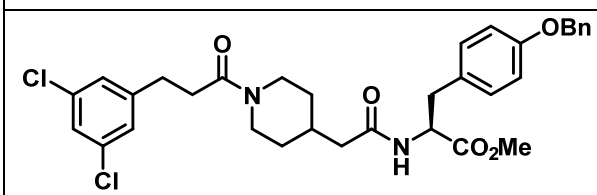
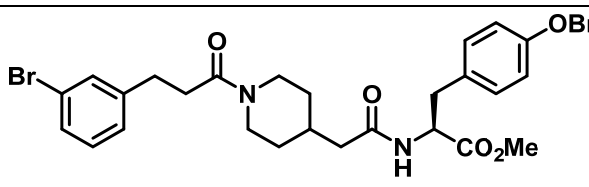
27. The use of claim 25, wherein the cancer is lung cancer.

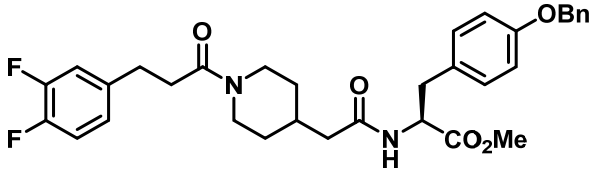
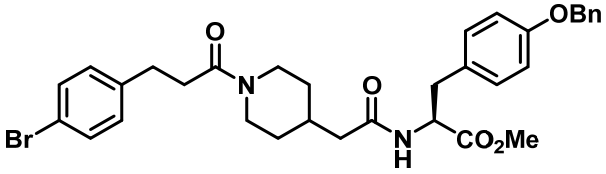
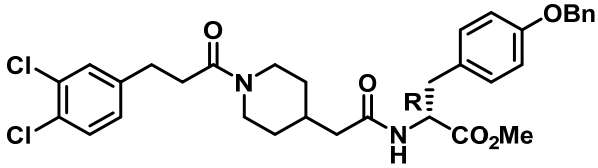
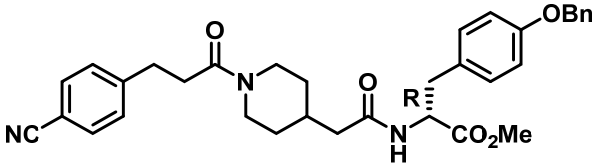
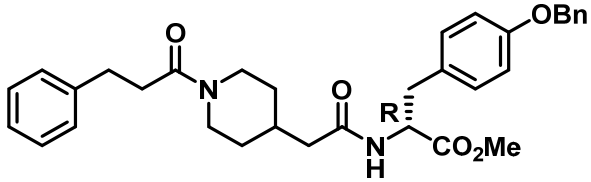
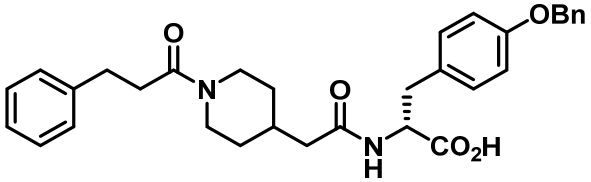
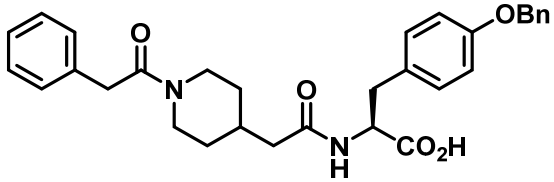
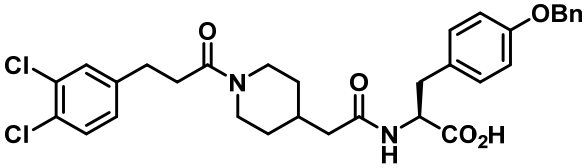
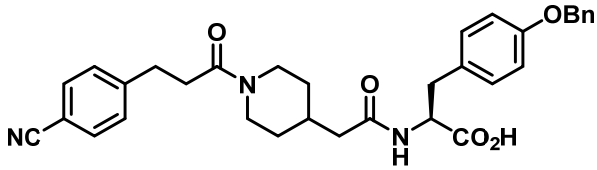
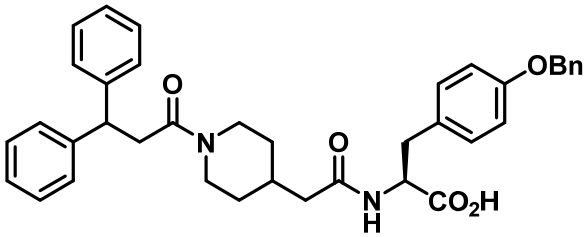
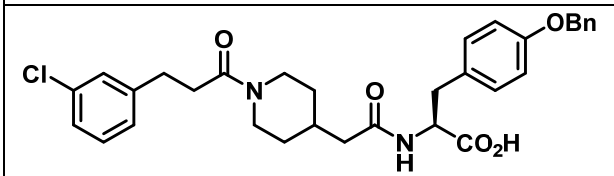
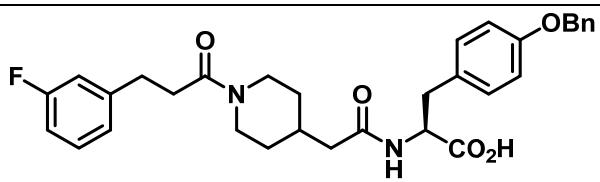
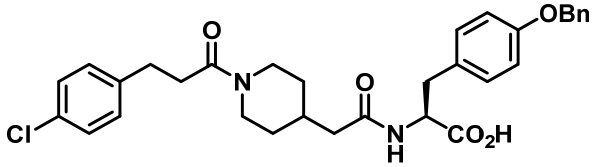
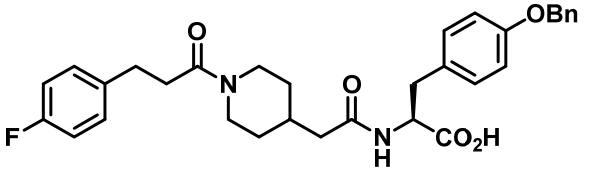
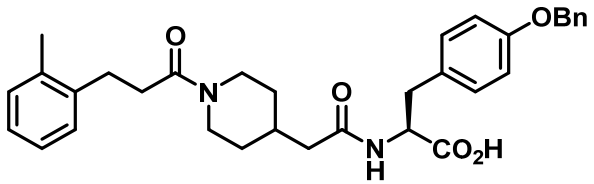
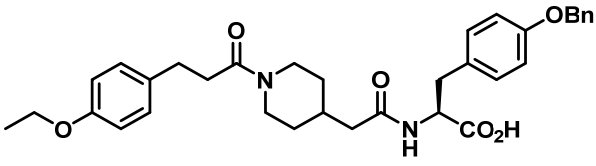
28. A compound chosen from the following:



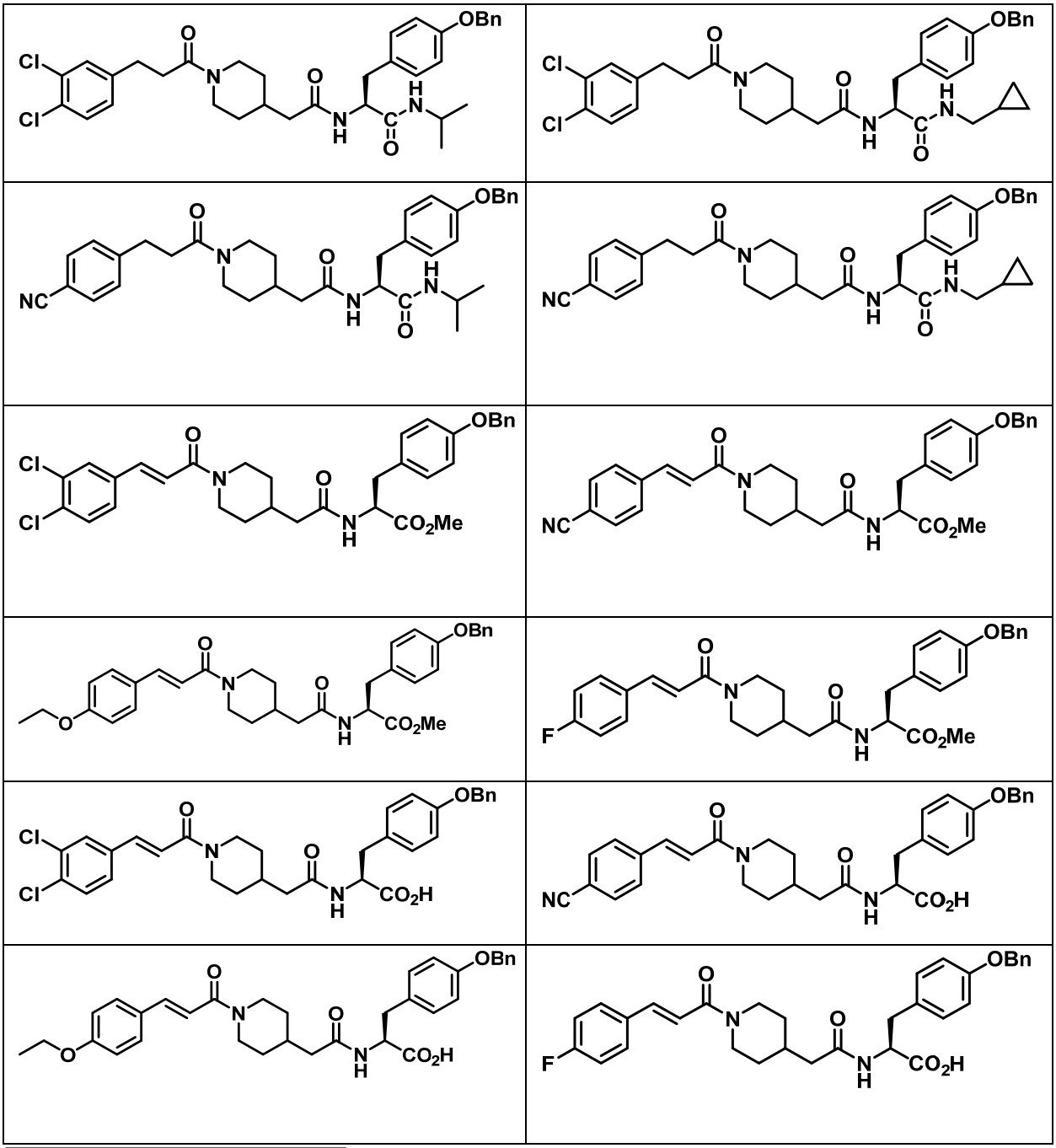
	
	
	
	
	
	
	
	
	

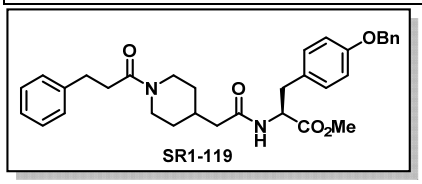
	
	
	
	
	
	
	
	



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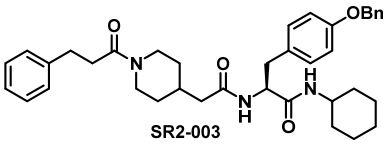
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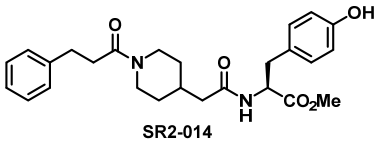
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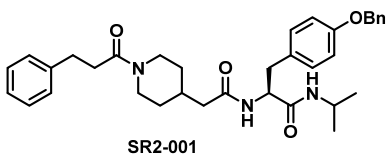
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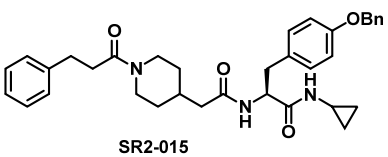
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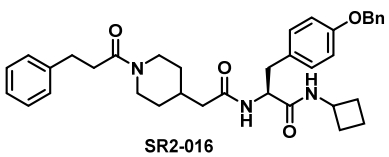
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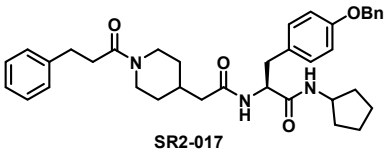

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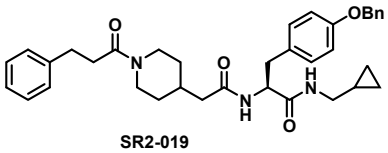

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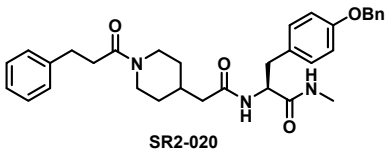

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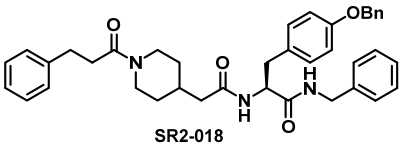

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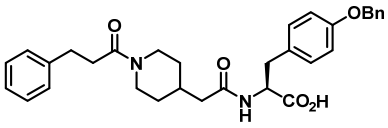

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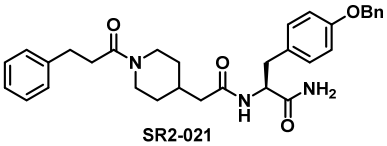

SR2-021

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