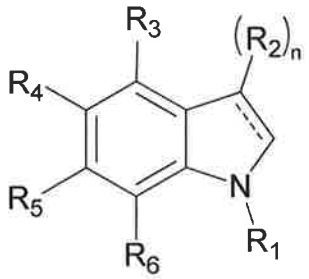
WHAT IS CLAIMED IS:

1. A compound of formula (I):



(I),

wherein

---- is a single bond or a double bond;

n is 0, 1, or 2;

R_1 is ~~H, alkyl optionally substituted with aryl or heteroaryl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, $C(O)R_a$, or~~ SO_2R_a, in which R_a is ~~H,~~ alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocycloalkyl, or heterocycloalkenyl;

R_2 is H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, halo, cyano, nitro, OR_b, SR_b, $S(O)R_b$, NHC(O)-CH=CH-$C(O)R_b$, NHC(O)-CH=CH-$C(O)NR_cR_d$, $SO_2NR_cR_d$, $OC(O)R_b$, $C(O)NR_cR_d$, NR_cR_d, $NHC(O)R_b$, $NHC(O)NR_cR_d$, or $NHC(S)R_c$, in which each of R_b, R_c, and R_d, independently, is H, hydroxy, alkoxy, aryloxy, heteroaryloxy, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocycloalkyl, or heterocycloalkenyl; ~~and~~

each of ~~R_2,~~ R_3, R_4, R_5, and R_6, independently is, H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, halo, cyano, nitro, OR_b, SR_b, $S(O)R_b$, ~~$CH=CH-C(O)R_b$,~~ CH=CH-$C(O)NR_cR_d$, NHC(O)-CH=CH-$C(O)R_b$, NHC(O)-CH=CH-$C(O)NR_cR_d$, $SO_2NR_cR_d$, $OC(O)R_b$, ~~$C(O)R_b$, $C(O)OR_b$,~~ $C(O)NR_cR_d$, NR_cR_d, $NHC(O)R_b$, $NHC(O)NR_cR_d$, or $NHC(S)R_c$, in which each of R_b, R_c, and R_d, independently, is H, hydroxy, alkoxy, aryloxy, heteroaryloxy, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocycloalkyl, or heterocycloalkenyl;

and when R_1 is SO_2R_a, at least one of R_2, R_3, R_5, and R_6 has the following definitions: R_2 is NHC(O)-CH=CH-$C(O)R_b$ or NHC(O)-CH=CH-$C(O)NR_cR_d$; and R_3, R_5, and R_6 is CH=CH-$C(O)NR_cR_d$, NHC(O)-CH=CH-$C(O)R_b$, or NHC(O)-CH=CH-$C(O)NR_cR_d$; or R_4 is $C(O)NR_cR_d$, ~~$CH=CH-C(O)R_b$,~~ CH=CH-$C(O)NR_cR_d$, NHC(O)-CH=CH-$C(O)R_b$, or NHC(O)-CH=CH-$C(O)NR_cR_d$; ~~and when R_1 is aryl, R_4 is $CH=CH-C(O)NHR_e$~~.

2. The compound of claim 1, wherein R_4 is ~~CH=CH-C(O)R_b,~~ CH=CH-C(O)NR_cR_d, NHC(O)-CH=CH-C(O)R_b, or NHC(O)-CH=CH-C(O)NR_cR_d.

3. The compound of claim ~~2~~1, wherein R_4 is C(O)NHOH, ~~CH=CH-C(O)OH,~~ CH=CH-C(O)NHOH, NHC(O)-CH=CH-C(O)OH, or NHC(O)-CH=CH-C(O)NHOH.

4. The compound of claim 3, wherein R_4 is CH=CH-C(O)NHOH.

5. The compound of claim 4, wherein R_1 is SO_2R_a and R_a is aryl or heteroaryl.

6. The compound of claim 5, wherein R_a is phenyl optionally substituted with halo, hydroxyl, alkoxyl, amino, cyano, or nitro.

7. The compound of claim 1, wherein R_2 is NHC(O)-CH=CH-C(O)R_b or NHC(O)-CH=CH-C(O)NR_cR_d; or at least one of ~~R_2,~~ R_3, R_5, and R_6 is CH=CH-C(O)NR_cR_d, NHC(O)-CH=CH-C(O)R_b, or NHC(O)-CH=CH-C(O)NR_cR_d.

8. The compound of claim 7, wherein at least one of R_2, R_3, R_5, and R_6 is CH=CH-C(O)NHOH, NHC(O)-CH=CH-C(O)OH, or NHC(O)-CH=CH-C(O)NHOH.

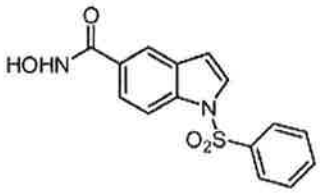
9. The compound of claim 8, wherein R_1 is SO_2R_a and R_a is aryl or heteroaryl.

10. The compound of claim 9, wherein R_a is phenyl optionally substituted with halo, hydroxyl, alkoxyl, amino, cyano, or nitro.

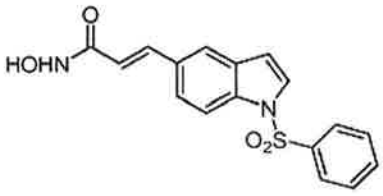
11. The compound of claim 1, wherein R_1 is SO_2R_a and R_a is aryl or heteroaryl.

12. The compound of claim 11, wherein R_a is phenyl optionally substituted with halo, hydroxyl, alkoxyl, amino, cyano, or nitro.

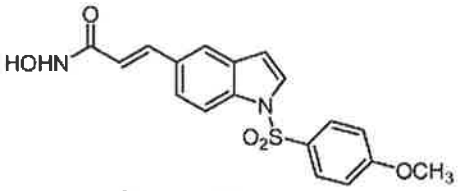
13. The compound of claim 1, wherein the compound is one of the following Compounds ~~1-29~~1, 3-8, 12-18, 20-22, 27 and 28~~.~~:



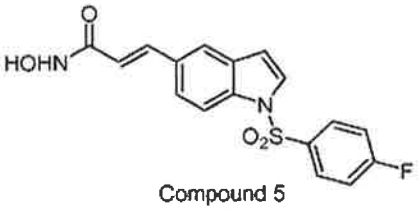
Compound 1



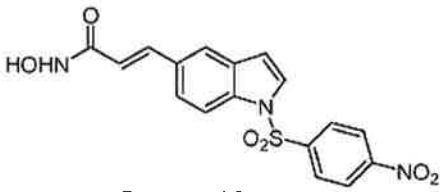
Compound 3



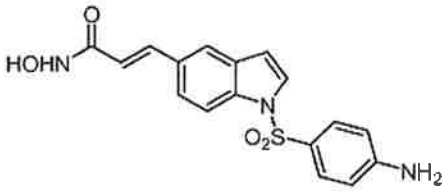
Compound 4



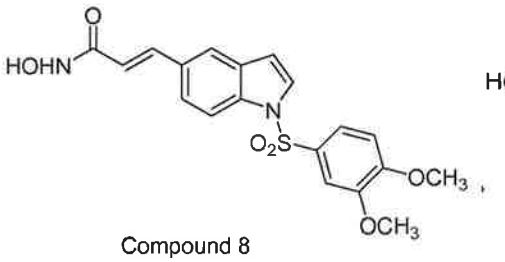
Compound 5



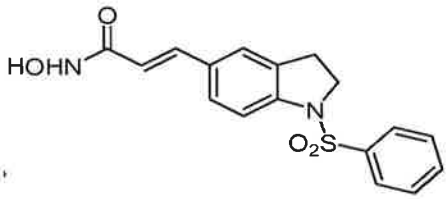
Compound 6



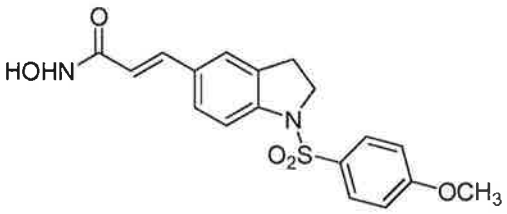
Compound 7



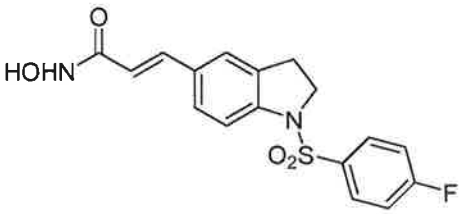
Compound 8



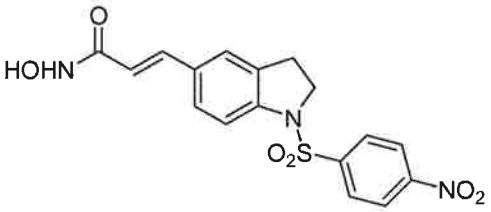
Compound 12



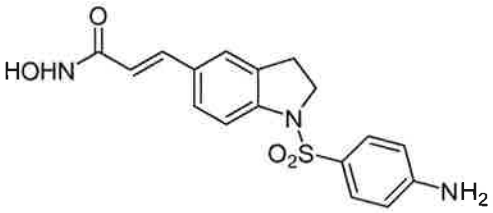
Compound 13



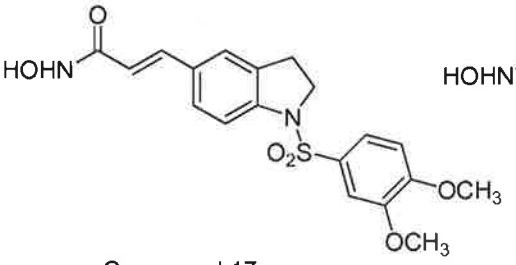
Compound 14



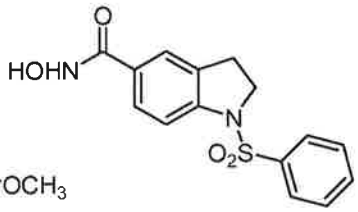
Compound 15



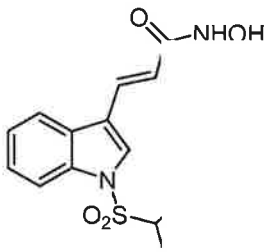
Compound 16



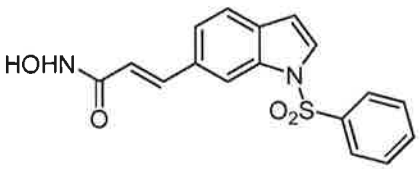
Compound 17



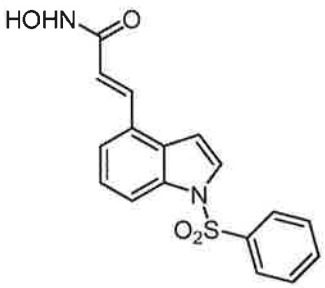
Compound 18



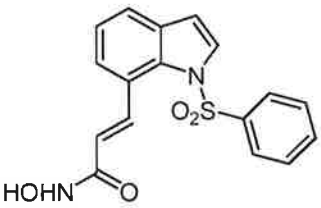
Compo



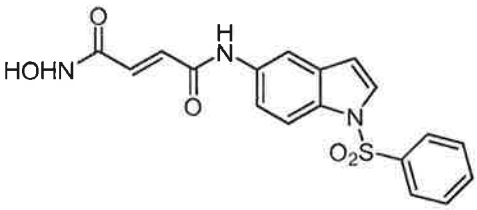
Compound 20



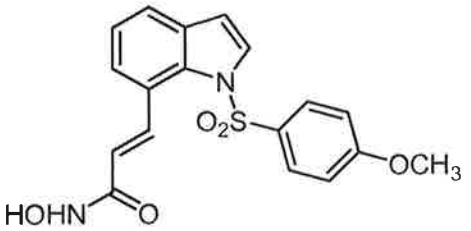
Compound 21



Compound 22



Compound 27



Compound 28

and

14. The compound of claim 13, wherein the compound is 3-(1-benzenesulfonyl-1*H*-indol-5-yl)-*N*-hydroxy-acrylamide or 3-(1-benzenesulfonyl-2,3-dihydro-1*H*-indol-5-yl)-*N*-hydroxy-acrylamide.

15. ~~A method for treating~~An effective amount of a compound of claim 1 for use in the treatment of cancer~~, comprising administering to a subject in need thereof an effective amount of a compound of claim 1~~.

16. ~~A method for treating~~An effective amount of a compound of claim 2 for use in the treatment of cancer~~, comprising administering to a subject in need thereof an effective amount of a compound of claim 2~~.

17. ~~A method for treating~~An effective amount of a compound of claim 11 for use in the treatment of cancer~~, comprising administering to a subject in need thereof an effective amount of a compound of claim 11~~.

18. A pharmaceutical composition, comprising a compound of claim 1 and a pharmaceutically acceptable carrier.

19. A pharmaceutical composition, comprising a compound of claim 2 and a pharmaceutically acceptable carrier.

20. A pharmaceutical composition, comprising a compound of claim 11 and a pharmaceutically acceptable carrier.