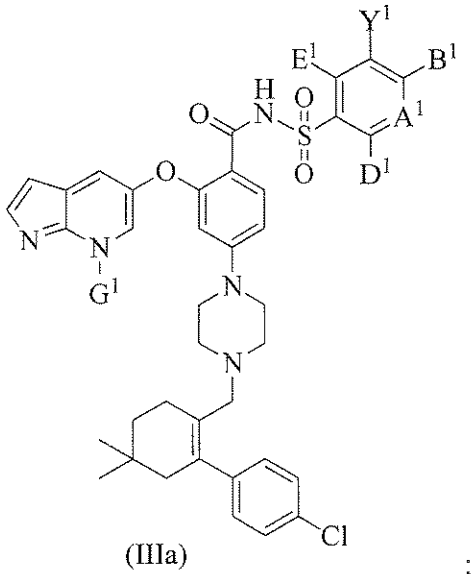
SUMMARY OF THE INVENTION

In one aspect, there is provided a compound having Formula (IIIa):



(IIIa);

or a therapeutically acceptable salt thereof, wherein

A^1 is $C(A^2)$;

A^2 is H;

B^1 is OR^1, or NHR^1, wherein R^1 is C_1-C_{10} alkyl substituted with R^{10};

D^1 is H;

E^1 is H;

Y^1 is NO_2;

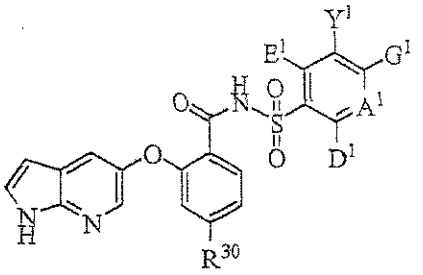
G^1 is alkyl substituted with OP(O)(OH)(OH);

R^{10} is C_3-C_{10}-cycloalkyl, each having one or two CH_2 moieties unreplaced or replaced with independently selected O;

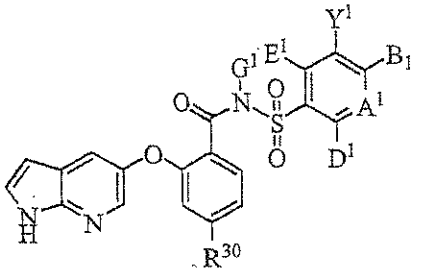
wherein the moiety represented by R^{10} is unsubstituted or substituted with one or two or three or four or five substituents independently selected from the group consisting of R^{50}, OR^{50}, F, Cl, Br, and I; and

R^{50} is C_1-C_{10} alkyl.

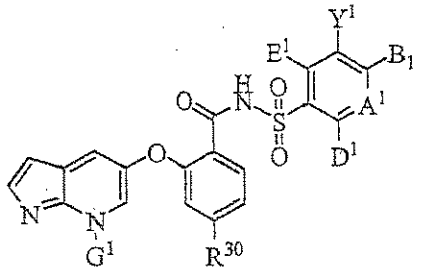
One embodiment of this invention, therefore, pertains to compounds or therapeutically acceptable salts, which are useful as selective inhibitors of one or more than one anti-apoptotic protein family member, the compounds having Formula (I), (II), or (III)



(I)



(II)



(III)

;

wherein

A^1 is N or $C(A^2)$;

A^2 is H, R^1, OR^1, SR^1, $S(O)R^1$, SO_2R^1, $C(O)R^1$, $C(O)OR^1$, $OC(O)R^1$, NHR^1, $N(R^1)_2$, $C(O)NHR^1$, $C(O)N(R^1)_2$, $NHC(O)R^1$, $NR^1C(O)R^1$, $NHC(O)OR^1$, $NR^1C(O)OR^1$, $NHC(O)NH_2$, $NHC(O)NHR^1$, $NHC(O)N(R^1)_2$, $NR^1C(O)NHR^1$, $NR^1C(O)N(R^1)_2$, SO_2NH_2, SO_2NHR^1, $SO_2N(R^1)_2$, $NHSO_2R^1$, $NR^1SO_2R^1$, $NHSO_2NHR^1$, $NHSO_2N(R^1)_2$, $NR^1SO_2NHR^1$, $NR^1SO_2N(R^1)_2$, $C(O)NHNOH$, $C(O)NHNOR^1$, $C(O)NHSO_2R^1$, $C(NH)NH_2$, $C(NH)NHR^1$, $C(NH)N(R^1)_2$ $NHSO_2NHR^1$, $NHSO_2N(CH_3)R^1$, $N(CH_3)SO_2N(CH_3)R^1$, F, Cl, Br, I, CN, NO_2, N_3, OH, C(O)H, CHNOH, $CH(NOCH_3)$, CF_3, C(O)OH, $C(O)NH_2$ or $C(O)OR^{1A}$;

2. The compound or therapeutically acceptable salt of claim 1, wherein the compound is selected from the group consisting of:

(5-{5-(4-{[2-(4-chlorophenyl)-4,4-dimethylcyclohex-1-en-1-yl]methyl}piperazin-1-yl)-2-[({3-nitro-4-[(tetrahydro-2H-pyran-4-ylmethyl)amino]phenyl}sulfonyl)carbamoyl]phenoxy}-7H-pyrrolo[2,3-b]pyridin-7-yl)methyl dihydrogen phosphate;

{5-[5-(4-{[2-(4-chlorophenyl)-4,4-dimethylcyclohex-1-en-1-yl]methyl}piperazin-1-yl)-2-{[(4-{[(trans-4-methoxycyclohexyl)methyl]amino}-3-nitrophenyl)sulfonyl]carbamoyl}phenoxy]-7H-pyrrolo[2,3-b]pyridin-7-yl}methyl dihydrogen phosphate;

(5-{5-(4-{[2-(4-chlorophenyl)-4,4-dimethylcyclohex-1-en-1-yl]methyl}piperazin-1-yl)-2-[({4-[(4-fluorotetrahydro-2H-pyran-4-yl)methoxy]-3-nitrophenyl}sulfonyl)carbamoyl]phenoxy}-7H-pyrrolo[2,3-b]pyridin-7-yl)methyl dihydrogen phosphate.

~~3. A compound or therapeutically acceptable salt thereof, wherein the compound is selected from the group consisting of:~~

~~3-[(4-{[4-(4-{[2-(4-chlorophenyl)-4,4-dimethylcyclohex-1-en-1-yl]methyl}piperazin-1-yl)-2-(1H-pyrrolo[2,3-b]pyridin-5-yloxy)benzoyl]sulfamoyl}-2-nitrophenyl)amino]-2,2-dimethylpropyl dihydrogen phosphate; and~~

~~trans-4-[(4-{[4-(4-{[2-(4-chlorophenyl)-4,4-dimethylcyclohex-1-en-1-yl]methyl}piperazin-1-yl)-2-(1H-pyrrolo[2,3-b]pyridin-5-yloxy)benzoyl]sulfamoyl}-2-nitrophenoxy)methyl]cyclohexyl dihydrogen phosphate; and therapeutically acceptable salts, and metabolites thereof.~~

3.~~4.~~ A composition comprising an excipient and a therapeutically effective amount of a compound or therapeutically acceptable salt of any one of claims 1-2~~3~~.