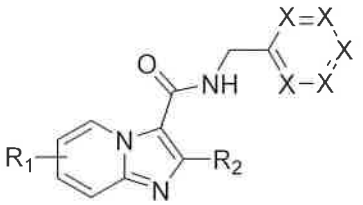
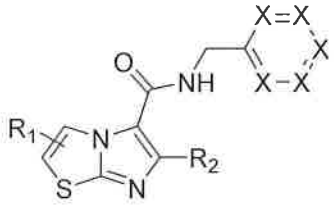
CLAIMS

What is claimed is:

1. A compound, having one of the following formulas:





wherein each X is independently N, C-R3, or C-R4; with the proviso that no more than two X's are N;

wherein R1 and R2 are each independently hydrogen, acyl group, alkenyl group, alkoxy group, alkoxycarbonyl group, alkoxycarbonyloxy group, alkoxysulfonyloxy group, alkyl group, alkylamino group, alkylaminocarbonyl group, alkylcarbonyl group, alkylcarbonyloxy group, alkylsulfonyl group, alkylsulfonyloxy group, alkylthio group, alkynyl group, amide group, amidine group, amino group, arylalkoxy group, arylalkyl group, aryl group, arylcarbonyl group, arylcarbonyloxy group, aryloxy group, aryloxycarbonyl group, aryloxycarbonyloxy group, aryloxysulfonyloxy group, arylsulfonyl group, arylsulfonyloxy group, azido group, carbamido group, carbamoyl group, carbazoyl group, carbonyl group, carboxylate group, carboxylic acid group, cyanato group, cyano group, cycloalkenyl group, cycloalkyl group, dialkylamino carbonyl group, dialkylamino group, guanidino group, guanyl group, halo group, heteroarylalkoxy group, heteroarylalkyl group, heteroaryl group, heteroarylcarbonyl group, heteroaryloxy group, heterocyclic group, hydroxamino group, hydroxy group, imino group, isocyanato group, isocyano group, mercapto group, nitro group, oxo group, perhaloalkenyl group, perhaloalkoxy group, perhaloalkyl group, perhaloalkynyl group, perhaloarylalkyl group, perhaloaryl group, perhalocycloalkyl group, phosphate group, phosphine group, phospho group, sulfate group, sulfo group, sulfonyl group, oxidized form thereof, substituted form thereof, heteroatom form thereof, or combination thereof;

wherein each R3 is independently hydrogen, "C-group", acyl group, alkenyl group, alkoxy group, alkoxycarbonyl group, alkoxycarbonyloxy group, alkoxysulfonyloxy group, alkyl group, alkylamino group, alkylaminocarbonyl group, alkylcarbonyl group, alkylcarbonyloxy group, alkylsulfonyl group, alkylsulfonyloxy group, alkylthio group, alkynyl group, amide group, amidine group, amino group, arylalkoxy

group, arylalkyl group, aryl group, arylcarbonyl group, arylcarbonyloxy group, aryloxy group, aryloxycarbonyl group, aryloxycarbonyloxy group, aryloxysulfonyloxy group, arylsulfonyl group, arylsulfonyloxy group, azido group, carbamido group, carbamoyl group, carbazoyl group, carbonyl group, carboxylate group, carboxylic acid group, cyanato group, cyano group, cycloalkenyl group, cycloalkyl group, dialkylamino carbonyl group, dialkylamino group, guanidino group, guanyl group, halo group, heteroarylalkoxy group, heteroarylalkyl group, heteroaryl group, heteroarylcarbonyl group, heteroaryloxy group, heterocyclic group, hydroxamino group, hydroxy group, imino group, isocyanato group, isocyano group, mercapto group, nitro group, oxo group, perhaloalkenyl group, perhaloalkoxy group, perhaloalkyl group, perhaloalkynyl group, perhaloarylalkyl group, perhaloaryl group, perhalocycloalkyl group, phosphate group, phosphine group, phospho group, sulfate group, sulfo group, sulfonyl group, oxidized form thereof, substituted form thereof, heteroatom form thereof, or combination thereof; and

wherein each R4 is independently hydrogen, "D-group", acyl group, alkenyl group, alkoxy group, alkoxycarbonyl group, alkoxycarbonyloxy group, alkoxysulfonyloxy group, alkyl group, alkylamino group, alkylaminocarbonyl group, alkylcarbonyl group, alkylcarbonyloxy group, alkylsulfonyl group, alkylsulfonyloxy group, alkylthio group, alkynyl group, amide group, amidine group, amino group, arylalkoxy group, arylalkyl group, aryl group, arylcarbonyl group, arylcarbonyloxy group, aryloxy group, aryloxycarbonyl group, aryloxycarbonyloxy group, aryloxysulfonyloxy group, arylsulfonyl group, arylsulfonyloxy group, azido group, carbamido group, carbamoyl group, carbazoyl group, carbonyl group, carboxylate group, carboxylic acid group, cyanato group, cyano group, cycloalkenyl group, cycloalkyl group, dialkylamino carbonyl group, dialkylamino group, guanidino group, guanyl group, halo group, heteroarylalkoxy group, heteroarylalkyl group, heteroaryl group, heteroarylcarbonyl group, heteroaryloxy group, heterocyclic group, hydroxamino group, hydroxy group, imino group, isocyanato group, isocyano group, mercapto group, nitro group, oxo group, perhaloalkenyl group, perhaloalkoxy group, perhaloalkyl group, perhaloalkynyl group, perhaloarylalkyl group, perhaloaryl group, perhalocycloalkyl group, phosphate group, phosphine group, phospho group, sulfate group, sulfo group, sulfonyl group, oxidized form thereof, substituted form thereof, heteroatom form thereof, or combination thereof;

wherein one or more R3 or R4 groups may join and form a fused ring with one or more other R3, R4, or combination of R3 and R4 groups;

or resonance form thereof, or salt thereof, or salt of resonance form thereof.

2. The compound of claim 1, R3 is a cyclic amine or substituted cyclic amine.

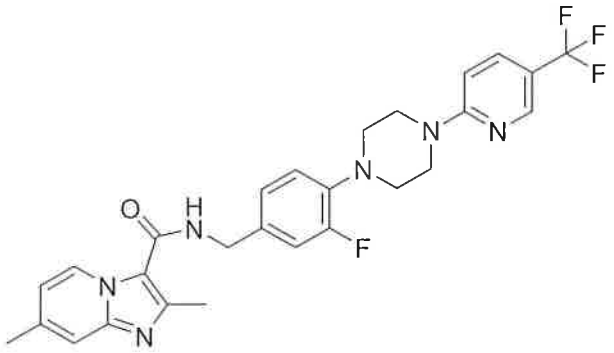
3. The compound of claim 1, wherein two X's are N.

4. The compound of claim 1, wherein two X's are N, and the two N's are ortho, meta, or para to one another.

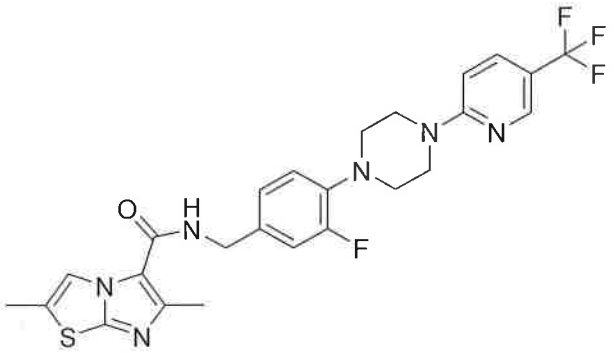
5. The compound of claim 1, wherein R4 is selected from hydrogen, halogen, Cl, F, $CH_3$, $CF_3$, CN,$OCF_3$, $SF_5$.

6. The compound of claim 1, which is one of the following compounds:

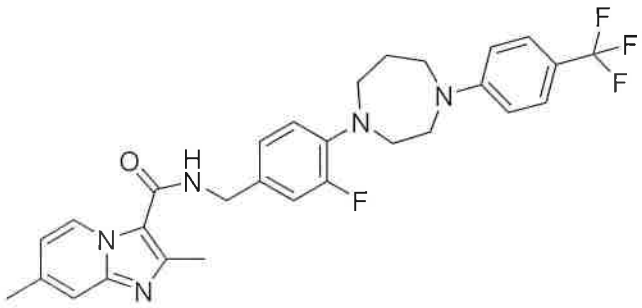
ND-011544



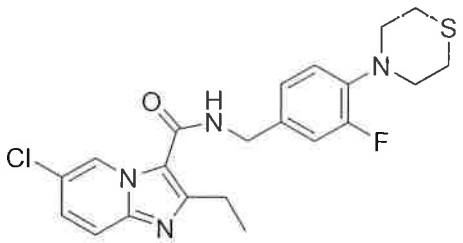
ND-011543



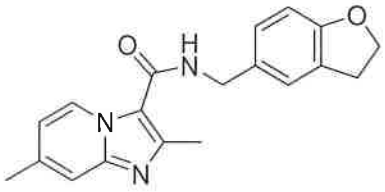
ND-011598



ND-011622

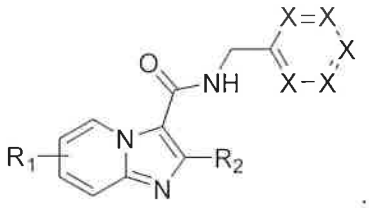



ND-10885

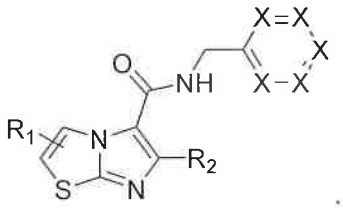



7. A composition, comprising the compound of claim 1 and a physiologically acceptable carrier.
8. The compound of claim 1 or the composition of claim 7 for use in therapy.
9. The compound of claim 1 or the composition of claim 7 for use in treating one or more maladies related to non-pathogenic mycobacterial strain, *M. smegmatis*, *M. vaccae*, *M. aurum,* Gram positive bacteria, *S. aureus*, *M. luteus, M. intracellulare, M.* Gram negative bacteria, *P. aeruginosa*, *A. baumanii,* pathogenic mycobacterial strain, *M. tuberculosis, M. bovis, M. marinum, M. kansasaii*, H37Rv, *M. africanum, M. canetti, M. caprae, M. microti, M. mungi, M. pinnipedii, M. avium,* myobacterium tuberculosis complex, tuberculosis, or combination thereof.
10. Use of the compound of claim 1 or the composition of claim 7 in the manufacture of a medicament for use in treating one or more maladies related to non-pathogenic mycobacterial strain, *M. smegmatis*, *M. vaccae*, *M. aurum,* Gram positive bacteria, *S. aureus*, *M. luteus, M. intracellulare, M.* Gram negative bacteria, *P. aeruginosa*, *A. baumanii,* pathogenic mycobacterial strain, *M. tuberculosis, M. bovis, M. marinum, M. kansasaii*, H37Rv, *M. africanum, M. canetti, M. caprae, M. microti, M. mungi, M. pinnipedii, M. avium,* myobacterium tuberculosis complex, tuberculosis, or combination thereof.

11. The compound of claim 1, having the following formula:



12. The compound of claim 1, having the following formula:



13. The compound of claim 1, wherein R1 is Cl, F, Br, $C_1$-$C_4$ alkyl, $C_2$-$C_4$ alkenyl, $C_2$-$C_4$ alkynyl, $C_1$-$C_4$ alkoxy, hydroxyl, nitrile, or nitro.

14. The compound of claim 1, wherein R1 is Cl, F, or $C_1$-$C_4$ alkyl.

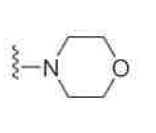
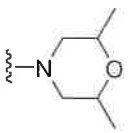
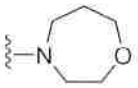
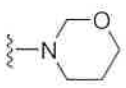
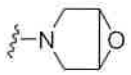
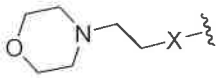
15. The compound of claim 1, wherein R2 is Cl, F, $CF_3$, $C_1$-$C_4$ alkyl, $C_2$-$C_4$ alkenyl, $C_1$-$C_4$ alkoxy.

16. The compound of claim 1, wherein R2 is Cl, F, $CF_3$, $C_1$-$C_4$ alkyl.

17. The compound of claim 1, wherein both C-R4 and C-R3 are present.

18. The compound of claim 1, wherein one or more R3 or R4 groups join and form a fused ring with one or more other R3, R4, or combination of R3 and R4 groups;

19. The compound of claim 1, wherein R3 s one of the following:

(X is O, NH)

