CLAIMS

What is claimed is:

1. A composition for treating substance use disorders comprising an effective amount of a compound chosen from the group consisting of 18-Methoxycoronaridine salt (18-MC) and a metabolite of 18-MC salt in a pharmaceutical carrier.

2. The composition of claim 1, wherein said composition is formulated in an oral dose.

3. The composition of claim 1, wherein said composition is a hydrochloride salt.

4. A use of a composition in the manufacture of a medicament for the treatment of substance use disorders, wherein:

an effective amount of a composition chosen from the group consisting of 18-Methoxycoronaridine salt (18-MC) and a metabolite of 18-MC salt in a pharmaceutical carrier to be administered to an individual; and

wherein the use prevents substance abuse in the individual.

5. The use of claim 4, wherein the substance is chosen from the group consisting of cocaine, nicotine, opiates, alcohol, morphine, and methamphetamine.

6. The use of claim 4, wherein the individual is a human.

7. The use of claim 4, wherein said prevention is further defined as reducing reinforcing and rewarding effects of the substance.

8. The use of claim 4, wherein said administration is performed orally.

9. The use of claim 4, wherein the salt is a hydrochloride salt.

10. The use of claim 4, wherein said effective amount is further defined as 0.01-10 mg/kg of the composition.

11. The use of claim 10, wherein said administration is further defined as 20 mg or less per day of the composition to be administered.

12. The use of claim 4, wherein 18-MC to be administered follows a multiple-compartment model

and a half-life is about 48 hours.

13. The use of claim 4, further including the steps of blocking α3β4 nicotinic receptors in the habenulo-interpeduncular pathway and the basolateral amygdala, and inhibiting enzymes CYP2C9, CYP2C19, CYP2C8, CYP2E1, and CYP3A4.

14. The composition of claim 1, wherein said metabolite is chosen from the group consisting of M1, M2, M3, M4, M5, M6, M7, M8, M9, P1, P2, P3, and P10 and wherein the salt is a hydrochloride salt.

15. The use of claim 4, wherein the metabolite is chosen from the group consisting of M1, M2, M3, M4, M5, M6, M7, M8, M9, P1, P2, P3, and P10 and wherein the salt is a hydrochloride salt.