CLAIMS

What is claimed is:

1. Use of 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof in the manufacture of a medicament for inhibition of pain and/or inflammation in a subject, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof is to be topically administered in an effective amount of about 0.5 mg to about 80 mg per day per site to the subject.

2. The use according to claim 1, wherein the effective amount is selected from the group consisting of about 0.5 mg to about 1 mg, about 1 mg to about 8 mg, about 8 mg to about 16 mg, about 16 mg to about 32 mg, about 32 mg to about 64 mg and about 64 mg to about 80 mg per day per site.

3. The use according to claim 1 or claim 2, wherein the amount is about 0.1 mg to about 64 mg per dose per site.

4. The use according to any one of claims 1-3, wherein the amount is selected from the group consisting of about 0.1 mg to about 2 mg, about 2 mg to about 4 mg, about 4 mg to about 8 mg, about 8 mg to about 16 mg, about 16 mg to about 32 mg, about 32 mg to about 40 mg and about 40 mg to about 64 mg per dose per site.

5. The use according to any one of claims 1-4, wherein the amount is about 5 $\mu g/cm^2$ to about 2 mg/cm^2 per dose per site.

6. The use according to any one of claims 1-5, wherein the amount is selected from the group consisting of about 5 $\mu g/cm^2$ to about 30 $\mu g/cm^2$, about 30 $\mu g/cm^2$ to about 480 $\mu g/cm^2$, about 480 $\mu g/cm^2$ to about 600 $\mu g/cm^2$, about 600 $\mu g/cm^2$ to about 750 $\mu g/cm^2$, about 750 $\mu g/cm^2$ to about 1 mg/cm^2 and about 1 mg/cm^2 to about 2 mg/cm^2 per dose per site.

7. The use according to any one of claims 1-6, wherein the dose form of the medicament is selected from the group consisting of transdermal patch, cream, foam, gel, lotion, ointment, paste, powder, shake lotion, solid, sponge, tape, tincture, vapor, drops, rinces, spray and solution.

8. The use according to claim 7, wherein the solution is selected from the group consisting of an alcohol solution, an acetone solution, a dimethyl sulfoxide solution, an alcohol-water solution, an acetone-water solution and a dimethyl sulfoxide-water solution.

9. The use according to claim 8, wherein the alcohol-water solution is an ethanol-water solution, the ethanol-water solution is a 10%-50%(v/v) ethanol-water solution.

10. The use according to any one of claims 1-9, wherein the concentration of 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof, is about 10 mg/mL to about 200 mg/mL, or about 10 mg/g to about 200 mg/g.

11. The use according to any one of claims 1-10, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof, is to be topically administered to a subject in a unit dose of about 0.01 mL to about 1 mL.

12. The use according to any one of claims 1-11, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof, is to be administered in an amount of about 0.1 mg to about 8 mg per unit dose.

13. The use according to any one of claims 1-12, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof includes 1-20 unit doses, which is to be topically administered to a subject in a single dose per site.

14. The use according to any one of claims 1-13, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof, is to be administered once, twice, three times, four times, five times, six times, seven times or eight times a day.

15. The use according to any one of claims 1-14, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof, is to be administered once every 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 or 24 hours.

16. The use according to any one of claims 1-15, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof, is to be administered for 1 day to life time, in consecutive or non-consecutive days.

17. The use according to any one of claims 1-16, wherein the subject is a human.

18. The use according to any one of claims 1-17, wherein the subject is a subject suffering from, at risk of suffering from or potentially capable of suffering from pains, bone pain, muscle pain, inflammation or arthritis.

19. The use according to any one of claims 1-18, wherein the subject is a subject suffering from, at risk of suffering from or potentially capable of suffering from arthritis pain, osteoarthritis, rheumatoid arthritis, gout, lupus, fibromyalgia and/or septic arthritis.

20. The use according to any one of claims 1-19, wherein said site of the subject is selected from the group consisting of knees, ankles, elbows, wrists, shoulders, hips, fingers, toes, neck spines, back spines and tissues, and combinations thereof.

21. The use according to any one of claims 1-20, wherein one of said site of the subject is one knee, one ankle, one elbow, one wrist, one shoulder, one side of hips, one finger, one toe, one neck spine, one back spine or one area of soft tissues.

22. The use according to any one of claims 1-21, wherein the 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof is to be topically administered to one or more surfaces of the site, said surface is the medial surface, the lateral surface, the front surface and/or the back surface of the site.

23. A device capable of administering 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate or a pharmaceutically acceptable salt thereof topically in an amount of about 0.5 mg to about 80 mg per day per site to the subject.

24. The device according to claim 23, wherein the device is a spray including a nozzle, the nozzle sprays about 0.1 mg to about 20 mg of 2-(diethylamino)ethyl 2-(4-isobutylphenyl)propionate and/or pharmaceutically acceptable salts thereof in each time of pressing the nozzle.