The disclosure further relates to a pharmaceutical composition comprising an opioid antagonist with κ- opioid receptor activity and vortioxetine or a pharmaceutically acceptable salt thereof together with a pharmaceutically acceptable excipient, wherein said opioid antagonist with κ- activity is nalmefene or a pharmaceutically acceptable salt thereof .

In one aspect, there is provided the use of an opioid antagonist with κ- activity in the preparation of a medicament for the treatment of depressive disorder with melancholic features, wherein said opioid antagonist with κ- activity is nalmefene or a pharmaceutically acceptable salt thereof.

Also disclosed is the use of an opioid antagonist with κ- activity in the preparation of a medicament for the treatment of depressive disorder with melancholic features, wherein a therapeutically effective amount of said opioid antagonist with κ- activity is to be administered to a patient having depressive disorder with melancholic features.

Yet another aspect relates to a kit comprising an opioid antagonist with κ- activity together with vortioxetine or a pharmaceutically acceptable salt thereof, wherein said opioid antagonist with κ- activity is nalmefene or a pharmaceutically acceptable salt thereof.

Brief description of drawings

Figures 1 and 2 illustrate the effect of vehicle and test compounds on chronic mild stress in male Wistar rats (control rats and rats exposed to chronic mild stress).

X-axis: weeks of treatment; Y-axis: sucrose intake (g). Values are means +/- SEM.

Figure 1.

Effects of chronic treatment with vehicle and imipramine (10 mg/kg, IP, once daily).

○= control/vehicle; ◇= control/imipramine; ●= stressed/vehicle; ◆= stressed/imipramine.

* - p<0.05, ** - p<0.01, *** - p<0.001; relative to vehicle- or drug-treated control groups.

- p<0.05, ## - p<0.01, ### - p<0.001; relative to drug-treated stressed animals at Week 0.

Figure 2.

Effects of chronic treatment with vehicle, vortioxetine (10 mg/kg, IP, once daily), nalmefene (1 mg/kg, IP, once daily) and joint administration of both drugs.

○= control/vehicle; △= control/vortioxetine; ◇= control/nalmefene;

▽= control/vortioxetine+nalmefene; ●= stressed/vehicle; ▲= stressed/vortioxetine;

◆= stressed/nalmefene; ▼= stressed/vortioxetine+nalmefene.

** - p<0.01, *** - p<0.001; relative to vehicle- or drug-treated control groups.

Claims

1. Use of an opioid antagonist with κ- activity in the preparation of a medicament for the treatment of depressive disorder with melancholic features, wherein said opioid antagonist with κ- activity is nalmefene or a pharmaceutically acceptable salt thereof.

2. The use according to claim 1, wherein said medicament further comprises vortioxetine or a pharmaceutically acceptable salt thereof.

3. The use according to any of claims 1-2, wherein the dose of nalmefene is between 1 and 30 mg.

4. The use according to any of claims 1-3, wherein the dose of vortioxetine is between 1 and 30 mg.

5. The use according to any of claims 1-4, wherein said opioid antagonist with κ- activity and vortioxetine are contained in separate unit dosage forms.

6. The use according to any of claims 1-4, wherein said opioid antagonist with κ- activity and vortioxetine are contained in the same unit dosage form.

7. The use according to any of claims 1-6, wherein said treatment comprises treatment of both depressive disorder with melancholic features and treatment of alcohol dependence.

8. A pharmaceutical composition comprising an opioid antagonist with κ- activity and vortioxetine or a pharmaceutically acceptable salt thereof together with a pharmaceutically acceptable excipient, wherein said opioid antagonist with κ- activity is nalmefene of a pharmaceutically acceptable salt thereof.

9. The pharmaceutical composition according to claim 8, comprising 1-30 mg of nalmefene and 1-30 mg of vortioxetine.

10. The pharmaceutical composition according to claims 8 or 9, comprising 5-20 mg of nalmefene and 5-20 mg of vortioxetine.

11. A kit comprising an opioid antagonist with κ- activity together with vortioxetine or a pharmaceutically acceptable salt thereof, wherein said opioid antagonist with κ-activity is nalmefene of a pharmaceutically acceptable salt thereof.

12. The kit according to claim 11, which is adapted for simultaneous administration of said opioid antagonist with κ- activity and vortioxetine.

13. The kit according to claim 11, which is adapted for independent administration of said opioid antagonist with κ- activity and said vortioxetine.