

## Title (en)

N-[(3S)-PYRROLIDIN-3-YL]-BENZAMIDE DERIVATIVES AS MONOAMINE RE-UPTAKE INHIBITORS

## Title (de)

N-[(3S)-PYRROLIDIN-3-YL]-BENZAMIDDERIVATE ALS MONOAMINWIEDERAUFNAHMEHEMMER

## Title (fr)

DERIVES DE N-[(3S)-PYRROLIDIN-3-YL]-BENZAMIDE UTILES COMME INHIBITEURS DE RECAPTAGE DE MONOAMINE

## Publication

**EP 1817281 A1 20070815 (EN)**

## Application

**EP 05808510 A 20051118**

## Priority

- IB 2005003643 W 20051118
- GB 0425766 A 20041123

## Abstract (en)

[origin: WO2006056884A1] A compound of Formula (I) and pharmaceutically and/or veterinarily acceptable derivatives thereof, wherein: R<SUP>1</SUP>, R<SUP>2</SUP>, R<SUP>3</SUP> and R<SUP>20</SUP> are each independently H, Cl, Br, F, I, CF<SUB>3</SUB>, OCF<SUB>3</SUB>, Me or Et; R<SUP>4</SUP> is het or C<SUB>3-7</SUB>-cycloalkyl optionally substituted by C<SUB>1-4</SUB>-alkyl, C<SUB>1-4</SUB>-alkoxy, alkoxyalkyl containing 2 to 4 carbon atoms or -S-(C<SUB>1-4</SUB>-alkyl); a is 0 or 1; and het is a non-aromatic 4-, 5- or 6- membered heterocycle which contains at least one N, O or S heteroatom, optionally fused to a 5- or 6- membered carbocyclic group or a second 4-, 5- or 6-membered heterocycle which contains at least one N, O or S heteroatom, wherein the het group is optionally substituted by at least one substituent independently selected from C<SUB>1-8</SUB>-alkyl, C<SUB>1-8</SUB>-alkoxy, OH, halo, CF<SUB>3</SUB>, OCF<SUB>3</SUB>, SCF<SUB>3</SUB>, hydroxy-C<SUB>1-6</SUB>-alkyl, C<SUB>1-4</SUB>-alkoxy-C<SUB>1-6</SUB>-alkyl and C<SUB>1-4</SUB>-alkyl-S-C<SUB>1-4</SUB>-alkyl; provided that at least one of R<SUP>1</SUP>, R<SUP>2</SUP> and R<SUP>3</SUP> are other than H. The compounds of the invention exhibit activity as both serotonin and noradrenaline re-uptake inhibitors and therefore have utility in a variety of therapeutic areas, for example urinary incontinence.

## IPC 8 full level

**C07D 207/14** (2006.01); **A61K 31/40** (2006.01); **C07D 405/12** (2006.01)

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