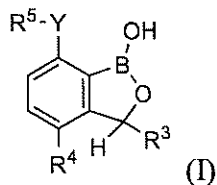


WE CLAIM :

1. A compound having a structure which is:



5 wherein R³ is -CH₂NO₂ or -CH₂NH₂;

R⁴ is selected from the group consisting of chlorine, bromine, methyl, ethyl, propyl, isopropyl, butyl, isobutyl, *sec*-butyl, and methoxy, ethoxy, propoxy, isopropoxy, butoxy, isobutoxy, and *sec*-butoxy

Y is O or S; and

10 R⁵ is selected from the group consisting of substituted or unsubstituted alkyl and substituted or unsubstituted heteroalkyl;

or a salt, hydrate or solvate thereof

wherein the alkyl groups have 10 or fewer carbon atoms and wherein the heteroalkyl groups include at least one heteroatom selected from the group consisting of B, O,

15 N and S; and

wherein the substituents for the alkyl and heteroalkyl radicals are each

selected from the group consisting of: -R', -OR', =O, =NR', =N-OR', -

NR'R'', -SR', -halogen, -SiR'R''R''', OC(O)R', -C(O)R', -CO₂R', -

CONR'R'', -OC(O)NR'R'', -NR''C(O)R', NR' C(O)NR''R''', -

20 NR''C(O)₂R', -NR''''-C(NR'R''R''')=NR''''', NR'''' C(NR'R'')=NR''', -

S(O)R', -S(O)₂R', -S(O)₂NR'R'', NR''SO₂R', -CN, -NO₂, -N₃, -CH(Ph)₂,

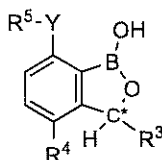
fluoro(C₁-C₄)alkoxy, and fluoro(C₁-C₄)alkyl, in a number ranging from

zero to (2m'+1), where m' is the total number of carbon atoms in such

radical; wherein R', R'', R''', R'''' and R''''' are each independently

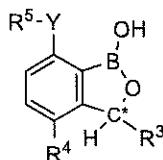
25 hydrogen, unsubstituted heteroalkyl, unsubstituted aryl, unsubstituted alkyl, alkoxy or thioalkoxy groups, or arylalkyl groups.

2. The compound as claimed in claim 1, having a structure which is:



wherein C* is a carbon atom stereocenter which has a configuration which is (R) or
5 (S).

3. The compound as claimed in claim 1, having a structure which is



wherein the C* is a carbon atom stereocenter which has a configuration which is (R)
10 or (S).

4. The compound as claimed in claim 2, wherein the C* stereocenter is in a (S) configuration.

5. The compound as claimed in claim 1, wherein R³ is -CH₂NH₂.

6. The compound as claimed in claim 1, wherein R⁴ is chlorine or
15 bromine.

7. The compound as claimed in claim 1, wherein Y is O.

8. The compound as claimed in claim 1, wherein R⁵ is selected from the group consisting of methyl, ethyl, propyl, isopropyl, butyl, isobutyl, t-butyl, and sec-butyl.

9. The compound as claimed in claim 1, wherein R³ is -CH₂NH₂; and R⁴ is chlorine.
20

10. The compound as claimed in claim 1, wherein R³ is -CH₂NH₂; R⁴ is chlorine; Y is O; and R⁵ is substituted or unsubstituted alkyl.

11. A composition comprising:

- a) a first stereoisomer of the compound as claimed in claim 4;
- b) at least one additional stereoisomer of the first stereoisomer;

wherein the first stereoisomer is present in an enantiomeric excess of at least 80% relative to said at least one additional stereoisomer.

12. A pharmaceutical formulation comprising:

- a) the compound as claimed in claim 1, or a pharmaceutically acceptable salt thereof; and
- b) a pharmaceutically acceptable excipient.

13. The compound as claimed in claim 1, wherein R^4 is bromine.

14. The compound as claimed in claim 1, wherein R^4 is selected from the group consisting of methyl, ethyl, propyl, isopropyl, butyl, isobutyl, t-butyl, and sec-butyl.

15. The compound as claimed in claim 1, wherein R^4 is methyl.

16. The compound as claimed in claim 1, wherein R^4 is selected from the group consisting of methoxy, ethoxy, propoxy, isopropoxy, butoxy, isobutoxy, and *sec*-butoxy.

17. The compound as claimed in claim 1, wherein R^4 is methoxy or ethoxy.

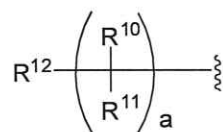
18. The compound as claimed in claim 1, or a salt, hydrate or solvate thereof, wherein R^3 is $-\text{CH}_2\text{NH}_2$; R^4 is chlorine; and Y is O.

19. The compound as claimed in claim 1, or a salt, hydrate or solvate thereof, wherein R^3 is $-\text{CH}_2\text{NH}_2$; R^4 is bromine; and Y is O.

20. The compound as claimed in claim 1, or a salt, hydrate or solvate thereof, wherein R^3 is $-\text{CH}_2\text{NH}_2$; R^4 is methyl; and Y is O.

21. The compound as claimed in any of the relevant previous

claims, wherein R⁵ is:



- wherein a is 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10; each R¹⁰ and each R¹¹ is independently selected from the group consisting of H, substituted or unsubstituted alkyl, OH and NH₂; R¹² is selected from the group consisting of H, R⁷, halogen, cyano, amidino, OR⁷, NR⁷R⁸, SR⁷, -N(R⁷)S(O)₂R⁸, -C(O)R⁷, -C(O)OR⁷, -C(O)NR⁷R⁸ wherein each R⁷ and each R⁸ is independently selected from the group consisting of H, substituted or unsubstituted alkyl, substituted or unsubstituted heteroalkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl, substituted or unsubstituted aryl, and substituted or unsubstituted heteroaryl;
- preferably, a is 1, 2, 3, 4, or 5;
- preferably, a is 2, 3, or 4;
- preferably, a is 3;
- preferably, each R¹⁰ and each R¹¹ is independently selected from the group consisting of H, substituted or unsubstituted alkyl, OH, and NH₂; preferably, each R¹⁰ and each R¹¹ is H;
- preferably R¹² is selected from the group consisting of H, OH, NH₂, methyl, ethyl, -NHS(O)₂CH₃, cyano, -NHC(O)CH₃, -NHC(O)NHCH₂CH₃, -C(O)NH₂, -C(O)OH, 4-(methoxy)phenyl, benzyl, benzoxy, -NHC(O)OCH₂Ph, -C(O)NHCH₂CH₂OH and -C(NH₂)(NH).

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(RUPSA GUPTA)
of D.P. AHUJA & CO.
Registration No.: IN/PA-1613
APPLICANT'S AGENT
E-mail: patents@dpahuja.com
Mobile Phone: +919831360050