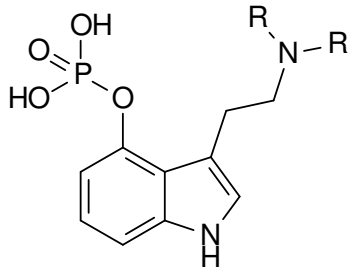
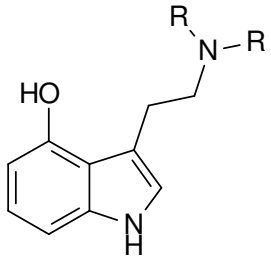
CLAIMS

1. A method for preparing a compound of formula (I):



(I)

wherein each R is independently C_{1-6} alkyl, preferably methyl or ethyl,
wherein the method comprises the step of reacting the compound of formula (Id):



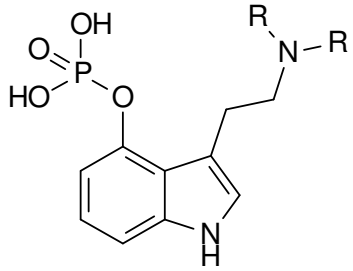
(Id)

with $(R'O)_2POCl$, wherein each R' is independently selected from C_{1-6} alkyl, $-CH_2$-aryl and $-CH_2$-heteroaryl,
wherein the product of the reaction of the compound of formula (Id) with said $(R'O)_2POCl$ is further reacted with TMSBr, resulting in the compound of formula (I).

2. The method of claim 1, wherein $(R'O)_2POCl$ is $(MeO)_2POCl$, $(EtO)_2POCl$,

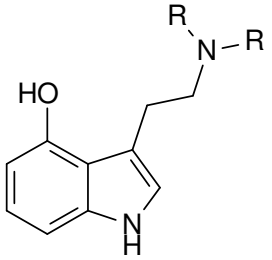
$(tBuO)_2POCl$ or $(benzyl\text{-}O)_2POCl$, more preferably $(EtO)_2POCl$ or $(tBuO)_2POCl$, even more preferably $(EtO)_2POCl$.

3. The method of claim 1 or 2 for preparing a compound of formula (I):



(I)

wherein each R is independently $C_{1\text{-}6}$ alkyl, preferably methyl or ethyl,
wherein the method comprises the step of reacting the compound of formula (Id):



(Id)

with $(EtO)_2POCl$ (DECP),
wherein the product of the reaction of the compound of formula (Id) with DECP is further reacted with TMSBr, resulting in the compound of formula (I).

4. The method of any one of claims 1 to 3, wherein each R is independently methyl or ethyl.

5. The method of any one of claims 1 to 3, wherein each R is methyl, or
wherein each R is ethyl.

6. The method of claim 3 or claim 4 or 5 insofar dependent on claim 3, wherein the w/w ratio of the compound of formula (Id) and (DECP) is between 0.8 and 1.2,

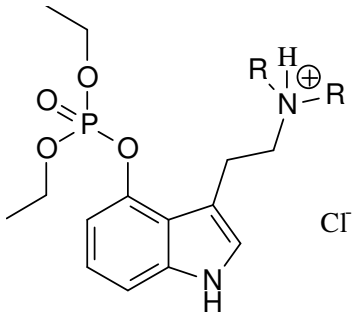
preferably between 1.0 and 1.2, more preferably between 1.10 and 1.15, even more preferably about 1.12, even more preferably 1.12,
preferably wherein DECP is added dropwise over the time of between 10 and 20 minutes.

7. The method of claim 3 or 6, or of claim 4 or 5 insofar dependent on claim 3, wherein the reaction of the compound of formula (Id) with DECP is performed in acetonitrile, preferably:
wherein the reaction of the compound of formula (Id) with DECP is performed at a temperature of between 50°C and 70°C, preferably at a temperature of between 55°C and 65°C, more preferably at a temperature of between 57°C and 63°C, even more preferably at a temperature of about 60°C, yet even more preferably at a temperature of 60°C,
and/or
wherein the reaction of the compound of formula (Id) with DECP is performed in the presence of a base, preferably wherein the base is N-ethyldiisopropylamine,
and/or
wherein the reaction of the compound of formula (Id) with DECP is performed for a time of at least 150 minutes, until at least 99% of the compound of formula (Id) has been reacted.

8. The method of any one of claims 3, 6 or 7, or claim 4 or 5 insofar dependent on claim 3, wherein upon the reaction of the compound of formula (Id) with DECP, the solvent is changed to toluene and aqueous NaOH solution is added thereto, followed by the phase separation,
preferably wherein NaOH is added at the concentration of 0.5 M to 1.0 M, more preferably at the concentration of about 0.75 M, even more preferably at the concentration of 0.75 M,
and/or
wherein upon completion of the reaction of the compound of formula (Id) with DECP, the solvent is changed to CPME and HCl in CPME is added to the reaction mixture, leading to precipitation of a crude product,
preferably wherein HCl in CPME is about 3M solution, and/or
wherein said solution is added dropwise over a time of between 25 and 35

minutes, and/or wherein said solution is added at a temperature of between 15°C and 20°C, preferably at a temperature of between 17°C and 23°C, more preferably at a temperature of about 20°C, even more preferably at a temperature of 20°C.

9. The method of any one of claims 3 or 6 to 8, or claim 4 or 5 insofar dependent on claim 3, wherein the reaction of the compound of formula (Id) with DECP results in a crude product of formula (Ie):



(Ie)

preferably wherein the crude product precipitated from CPME upon addition of HCl comprises a compound of formula (Ie).

10. The method of any one of claims 1 to 9, wherein the w/w ratio of TMSBr to the compound of formula (Id) is between 1.5 and 2.5, more preferably between 1.8 to 2.4, even more preferably between 2.0 and 2.3, even more preferably is about 2.0, even more preferably is 2.07.

11. The method of any one of claims 1 to 10, wherein the product of the reaction of the compound of formula (Id) with $(R'O)_2POCl$, preferably with DECP, is reacted with TMSBr in acetonitrile.

12. The method of any one of claims 1 to 11, wherein TMSBr is added at a temperature of between 30°C to 50°C, preferably at a temperature of between 35°C and 45°C, more preferably at a temperature of between 37°C and 43°C, even more preferably at a temperature of about 40°C, even more preferably at a temperature of 40°C,

and/or

wherein the product of the reaction of the compound of formula (Id) with $(R'O)_2POCl$, preferably with DECP, is reacted with TMSBr at a temperature of between 50°C and 70°C, preferably at a temperature of between 55°C and 65°C, more preferably at a temperature of between 57°C and 63°C, even more preferably at a temperature of about 60°C, even more preferably at a temperature of 60°C.

13. The method of any one of claims 1 to 12, wherein the reaction with TMSBr is conducted for at least 150 minutes, until the product of the reaction of the compound of formula (Id) with $(R'O)_2POCl$, preferably with DECP, is consumed in at least 99%,

and/or

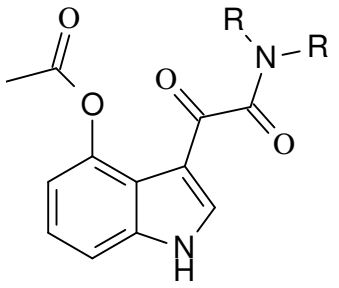
wherein upon reaction with TMSBr, the solvent is changed to methanol.

14. The method of any one of claims 1 to 13, wherein the obtained product of the reaction with TMSBr is subjected to solvent change to water, wherein the pH of the solution is set to a value in the range of between pH = 3.8 and pH = 4.2, preferably through addition of 1 M NaOH, preferably wherein the w/w ratio of 1M NaOH solution to the original amount of the compound of formula (Id) added is about 4.0, more preferably is 4.0, preferably wherein the final product of formula (I) precipitates from aqueous solution at pH of between 3.8 and 4.2 and/or at a temperature of less than 20°C, preferably at a temperature of about 15°C, more preferably at a temperature of 15°C,

and/or

wherein the final product of formula (I) is re-slurried upon treatment with water/acetone under reflux.

15. The method of any one of claims 1 to 14, further comprising the step of reducing a compound of formula (Ic):



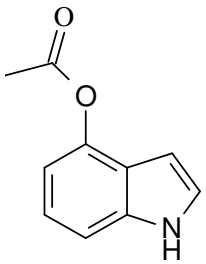
(Ic)

resulting in the compound of formula (Id).

16. The method of claim 15 wherein in the step of reducing the compound of formula (Ic) resulting in the compound of formula (Id), LAH is used as a reducing agent, preferably wherein the step of reducing the compound of formula (Ic) resulting in the compound of formula (Id) is performed in toluene, in dioxane or in CPME, preferably in toluene,
wherein preferably said step is performed under reflux.

17. The method of claim 15 wherein in the step of reducing the compound of formula (Ic) resulting in the compound of formula (Id), $NaBH_4$ is used as a reducing agent.

18. The method of any one of claims 15 to 17, wherein the method further comprises the step of reacting a compound of formula (Ia):

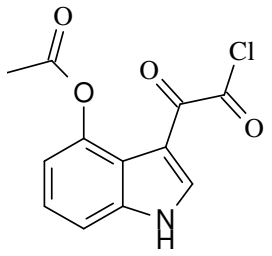


(Ia)

with $(COCl)_2$, followed by the reaction of the resulting product with R_2NH, preferably:
wherein the reaction of the compound of formula (Ia) with $(COCl)_2$ is performed in CPME at a temperature of between 0°C and 10°C,

and/or

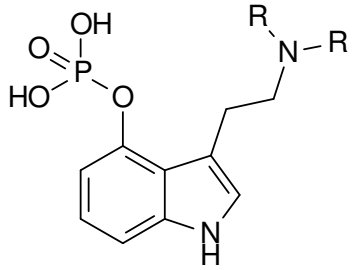
wherein the reaction of the compound of formula (Ia) with $(COCl)_2$ results in a compound of formula (Ib):



(Ib)

wherein said compound of formula (Ib) is reacted with R_2NH to result in the compound of formula (Ic).

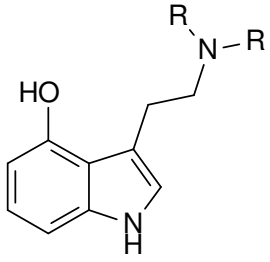
19. A method of obtaining the compound of formula (I):



(I)

wherein each R is independently C_{1-6} alkyl, preferably methyl or ethyl,

the method comprising the step of reacting a product obtainable in the reaction of the compound of formula (Id):



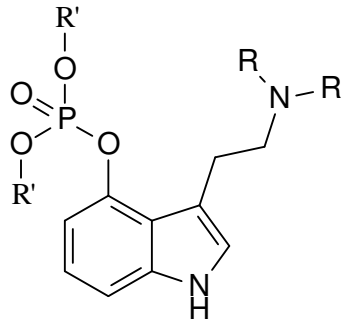
(Id)

with $(R'O)_2POCl$, wherein each R' is independently selected from C_{1-6} alkyl, $-CH_2$-aryl and $-CH_2$-heteroaryl, with TMSBr, resulting in the compound of formula (I).

20. The method of claim 19, wherein each R' is independently C_{1-6} alkyl or $-CH_2$-aryl, preferably wherein each R' is independently C_{1-6} alkyl, more preferably wherein both R' are ethyl

and/or

wherein the product obtainable in the reaction of the compound of formula (Id) with $(R'O)_2POCl$ is a compound of formula:



(Ie-1)

or its salt, preferably HCl salt, wherein R and R' are as defined in claim 19.