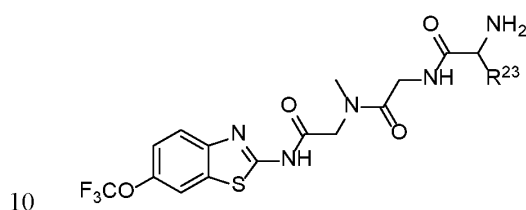


CLAIMS

What is claimed is:

- 5 1. A method of treating Alzheimer's Disease in a patient in need thereof, comprising administering to the patient a therapeutically effective amount of a riluzole prodrug.

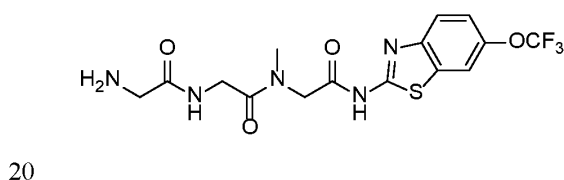
2. The method of claim 1 wherein the riluzole prodrug has the following formula:



and pharmaceutically acceptable salts thereof, wherein:

- 15 R_{23} is selected from the group consisting H, CH₃, CH₂CH₃, CH₂CH₂CH₃, CH₂CCH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂OH, CH₂OCH₂Ph, CH₂CH₂OCH₂Ph, CH(OH)CH₃, CH₂Ph, CH₂(cyclohexyl), CH₂(4-OH-Ph), (CH₂)₄NH₂, (CH₂)₃NHC(NH₂)NH, CH₂(3-indole), CH₂(5-imidazole), CH₂CO₂H, CH₂CH₂CO₂H, CH₂CONH₂, and CH₂CH₂CONH₂.

3. The method of claim 2 wherein the riluzole prodrug has the following formula:



4. The method of claim 1 wherein the riluzole prodrug is administered to the patient at a dosage of from about 100 to 400 mg per day.

5. The method of claim 4 wherein the riluzole prodrug is administered to the patient at a dosage of about 110, or 140, or 150, or 210, or 280, or 350 mg per day.

6. The method of claim 5 wherein the riluzole prodrug is administered to the patient at a dosage of 280 mg, once per day.

7. The method of claim 6 wherein the riluzole prodrug is administered to the patient at a dosage of 140 mg, twice per day.
- 5 8. The method of claim 1 wherein the riluzole prodrug is administered to the patient once per day.
9. The method of claim 1 wherein the riluzole prodrug is administered to the patient twice per day.
- 10 10. The method of claim 1 wherein the riluzole prodrug is administered to the patient in the form of a capsule.
11. The method of claim 1 wherein the riluzole prodrug is administered to the patient in the form of a tablet.
- 15 12. The method of claim 1 wherein the riluzole prodrug is administered to the patient for a duration of from about 8 weeks to 48 weeks.
- 20 13. The method of claim 1 wherein the riluzole prodrug is administered to the patient for a duration of from the onset of treatment to the end of the patient's life.
14. A method for improving a response in a patient afflicted with Alzheimer's disease comprising administering to the patient in need thereof, an effective amount of a riluzole prodrug.
- 25 15. The method of claim 14 wherein the improved response is one or more of overall survival, quality of life, overall response rate, duration of response, delay of onset, or patient reported outcome.
- 30 16. A kit for treating a patient afflicted with Alzheimer's Disease, the kit comprising:
- (a) a riluzole prodrug; and
- (b) instructions for administering the riluzole prodrug in the method of any of claims 1-15.

17. The kit of claim 16 wherein the prodrug has the following formula:

