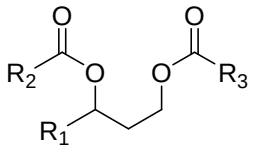
CLAIMS

1. A food supplement comprising a compound of formula I:



Formula I

wherein

R_1 is C(1-6) alkyl or substituted alkyl; and

R_2 and R_3 are independently unsubstituted or substituted C(4-30) alkyl.

2. The food supplement of claim 1, wherein R_1 is an unsubstituted C(1-6) alkyl.

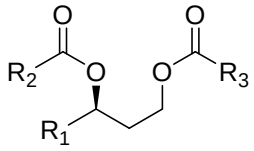
3. The food supplement of claim 2, wherein R_1 is methyl.

4. The food supplement of any one of claims 1-3, wherein R_2 and R_3 are independently unsubstituted C(6-18) alkyl.

5. The food supplement of any one of claims 1-3, wherein R_2 and R_3 are independently unsubstituted C6 alkyl.

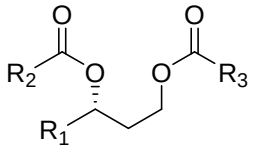
6. The food supplement of any one of claims 1-3, wherein R_2 and R_3 are independently unsubstituted C8 alkyl.

7. The food supplement of any one of claims 1-6, wherein the compound is of formula Ia:



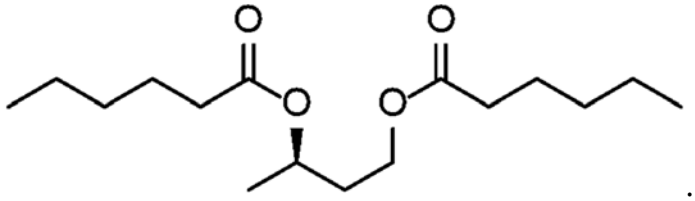
Formula Ia.

8. The food supplement of any one of claims 1-6, wherein the compound is of formula Ib:

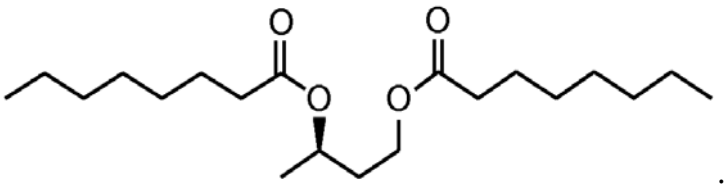


Formula Ib.

9. The food supplement of claim 1, wherein said compound comprises a compound having the formula:



10. The food supplement of claim 1, wherein said compound comprises a compound having the formula:



11. The food supplement of any one of claims 1-10, wherein said food supplement includes one or more additional components of a ketogenic diet.

12. The food supplement of claim 11, wherein the compound is present in the composition in an amount ranging from 1% w/w to 25% w/w.

13. The food supplement of claim 12, wherein the compound is present in the composition in an amount ranging from 5% w/w to 15% w/w.

14. The food supplement of claim 13, wherein the compound is present in the composition in an amount of 10% w/w.

15. The food supplement of any one of claims 11-14, wherein the ketogenic diet comprises a ratio by mass of fat to protein and carbohydrates ranging from 2:1 to 10:1.

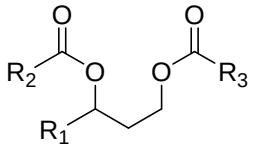
16. The food supplement of claim 15, wherein the ketogenic diet comprises a ratio by mass of fat to protein and carbohydrates ranging from 3:1 to 6:1.

17. The food supplement of claim 16, wherein the ketogenic diet comprises a ratio by mass of fat to protein and carbohydrates of 4:1.

18. A pharmaceutical composition comprising:

a pharmaceutically acceptable carrier; and

a compound of formula I:



Formula I

wherein

R_1 is C(1-6) alkyl or substituted alkyl; and

R_2 and R_3 are independently unsubstituted or substituted C(4-30) alkyl.

19. The pharmaceutical composition of claim 18, wherein R_1 is an unsubstituted C(1-6) alkyl.

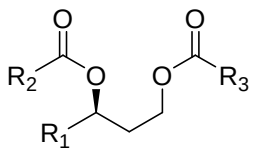
20. The pharmaceutical composition of claim 19, wherein R_1 is methyl.

21. The pharmaceutical composition of any one of claims 18-20, wherein R_2 and R_3 are independently unsubstituted C(6-18) alkyl.

22. The pharmaceutical composition of any one of claims 18-20, wherein R_2 and R_3 are independently unsubstituted C6 alkyl.

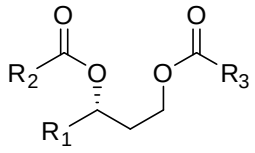
23. The pharmaceutical composition of any one of claims 18-20, wherein R_2 and R_3 are independently unsubstituted C8 alkyl.

24. The pharmaceutical composition of any one of claims 18-23, wherein the compound is of formula Ia:



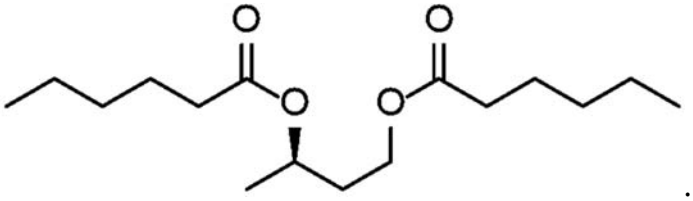
Formula Ia.

25. The pharmaceutical composition of any one of claims 18-23, wherein the compound is of formula Ib:



Formula Ib.

26. The pharmaceutical composition of claim 18, wherein said compound comprises a compound having the formula:



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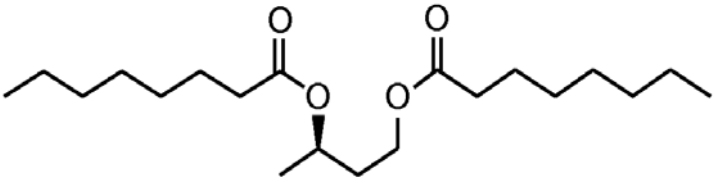
27. The pharmaceutical composition of claim 18, wherein said compound comprises a compound having the formula:



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28. A pharmaceutical composition of any one of claims 18-27 for use as a medicament.

29. Use of a pharmaceutical composition of any one of claims 18-27 in the manufacture of a medicament for reducing epileptiform activity in the brain of a subject.