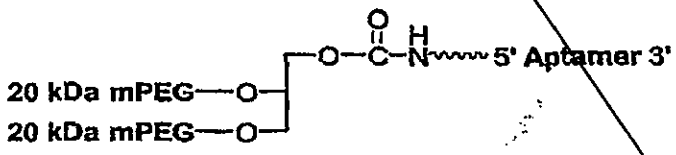
CLAIMS

1. A pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type age-related macular degeneration (AMD), wherein the pegylated or unpegylated aptamer binds to C5 complement and has a sequence of SEQ ID NO: 4, wherein the pegylated or unpegylated aptamer is for sequential or substantially simultaneous administration with an anti-VEGF agent that is an antibody or antibody fragment directed against VEGF.

2. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to claim 1, wherein the pegylated or unpegylated aptamer or the anti-VEGF agent is administered by ocular administration, intravitreal administration, or peri-ocular administration.

3. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to claim 1 or claim 2, wherein the pegylated or unpegylated aptamer or the anti-VEGF agent is present in a depot formulation.

4. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to any one of claims 1 to 3, wherein the aptamer is pegylayted and has the formula:



or a salt thereof,

where ~~~~ indicates a linker, and

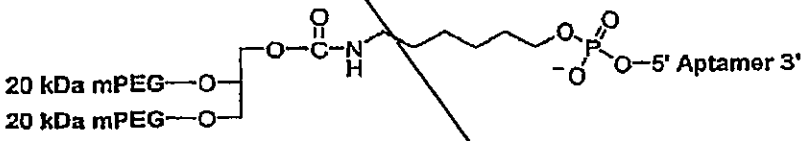
Aptamer =

fCmGfCfCGfCmGmGfUfCfUfCmAmGmGfCGfCfUmGmAmGfUfCfUmGmAmGfUfUfUAfCf CfUmGfCmG-3T (SEQ ID NO:4), wherein fC and fU = 2'-fluoro nucleotides, mG and mA = 2'-OMe nucleotides, all other nucleotides are 2'-OH, and 3T indicates an inverted deoxythymidine.

5. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to claim 4, wherein the linker is an alkyl linker.

6. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to claim 5, wherein the alkyl linker comprises 2 to 18 consecutive CH_2 groups.

7. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to any one of claims 4 to 6, wherein the aptamer has the structure:



or a salt thereof,

Aptamer=fCmGfCfCGfCmGmGfUfCfUfCmAmGmGfCGfCfUmGmAmGfUfCfUmGmAmGfU fUfUAfCfCfUmGfCmG-3T (SEQ ID NO: 4),

wherein fC and fU = 2'-fluoro nucleotides, and mG and mA = 2'-OMe nucleotides and all other nucleotides are 2' -OH and 3T indicates an inverted deoxy thymidine.

8. The pegylated or unpegylated aptamer t for use in a method of improving visual acuity in a human having exudative type AMD according to any one claims 1 to 7, wherein the anti-VEGF agent is ranibizumab or bevacizumab.

9. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to any one claims 1 to 8, wherein the aptamer and the anti-VEGF agent are present in separate compositions.

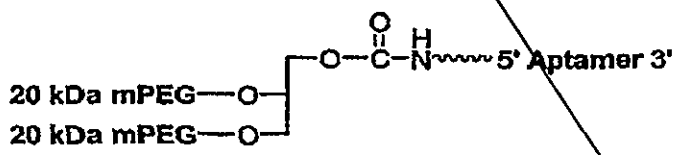
10. The pegylated or unpegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to any one of claims 1 to 8, wherein the aptamer and the anti-VEGF agent are present in the same composition.

11. Use of a pegylated or unpegylated aptamer in the manufacture of a medicament for improving visual acuity in a human having exudative type AMD, wherein the pegylated or unpegylated aptamer binds to C5 complement and has a sequence of SEQ ID NO: 4, and wherein the medicament is administered sequentially or substantially simultaneously with an anti-VEGF agent that is an antibody or antibody fragment directed against VEGF.

12. The use according to claim 11, wherein the medicament is administered by ocular administration, intravitreal administration, or peri-ocular administration.

13. The use according to claim 11 or claim 12, wherein the medicament is present in a depot formulation.

14. The use according to any one of claims 11 to 13, wherein the aptamer has the formula:



or a salt thereof,

where ~~~~ indicates a linker, and

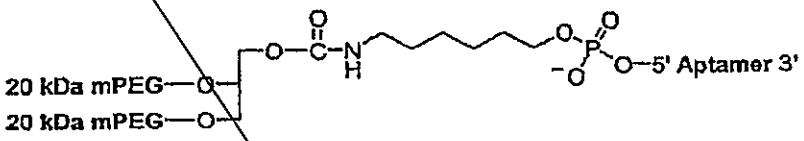
Aptamer =

fCmGfCfCGfCmGmGfUfCfUfCmAmGmGfCGfCfUmGmAmGfUfCfUmGmAmGfUfUfUAfCf CfUmGfCmG-3T (SEQ ID NO:4), wherein fC and fU = 2'-fluoro nucleotides, mG and mA = 2'-OMe nucleotides, all other nucleotides are 2'-OH, and 3T indicates an inverted deoxythymidine.

15. The use according to claim 14, wherein the linker is an alkyl linker.

16. The use according to claim 15, wherein the alkyl linker comprises 2 to 18 consecutive CH_2 groups.

17. The use according to any one of claims 14 to 16, wherein the aptamer has the structure:



or a salt thereof,

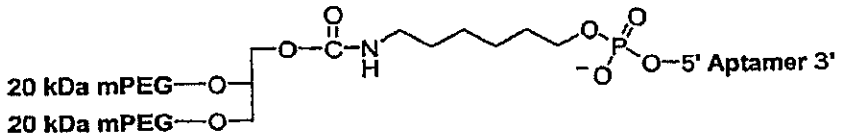
Aptamer=fCmGfCfCGfCmGmGfUfCfUfCmAmGmGfCGfCfUmGmAmGfUfCfUmGmAmGfU fUfUAfCfCfUmGfCmG-3T (SEQ ID NO: 4),

wherein fC and fU = 2'-fluoro nucleotides, and mG and mA = 2'-OMe nucleotides and all other nucleotides are 2' -OH and 3T indicates an inverted deoxy thymidine.

18. The use according to any one of claims 11 to 17, wherein the anti-VEGF agent is ranibizumab or bevacizumab.

CLAIMS

1. A pegylated aptamer for use in a method of improving visual acuity in a human having exudative type age-related macular degeneration (AMD), wherein the aptamer binds to C5 complement and has the structure:



or a salt thereof,

Aptamer=fCmGfCfCGfCmGmGfUfCfUfCmAmGmGfCGfCfUmGmAmGfUfCfUmGmAmGfUfUfUAfCfCfUmGfCmG-3T (SEQ ID NO: 4),

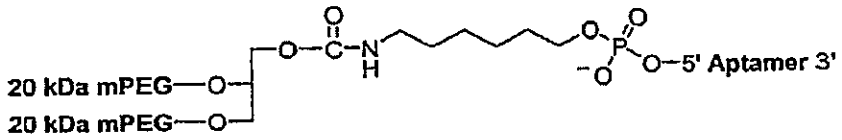
wherein fC and fU = 2'-fluoro nucleotides, and mG and mA = 2'-OMe nucleotides and all other nucleotides are 2' -OH and 3T indicates an inverted deoxy thymidine, and wherein the pegylated aptamer is for sequential or substantially simultaneous administration with an anti-VEGF agent that is an antibody or antibody fragment directed against VEGF.

2. The pegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to claim 1, wherein the anti-VEGF agent is ranibizumab or bevacizumab.

3. The pegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to claim 1 or 2, wherein the aptamer and the anti-VEGF agent are present in separate compositions.

4. The pegylated aptamer for use in a method of improving visual acuity in a human having exudative type AMD according to any one of claims 1 to 3, wherein the aptamer and the anti-VEGF agent are present in the same composition.

5. Use of a pegylated aptamer in the manufacture of a medicament for improving visual acuity in a human having exudative type AMD, wherein the aptamer binds to C5 complement and has the structure:



or a salt thereof,

Aptamer=fCmGfCfCGfCmGmGfUfCfUfCmAmGmGfCGfCfUmGmAmGfUfCfUmGmAmGfUfUfUAfCfCfUmGfCmG-3T (SEQ ID NO: 4),

wherein fC and fU = 2'-fluoro nucleotides, and mG and mA = 2'-OMe nucleotides and all other nucleotides are 2' -OH and 3T indicates an inverted deoxy thymidine, and wherein the medicament is administered sequentially or substantially simultaneously with an anti-VEGF agent that is an antibody or antibody fragment directed against VEGF.

6. The use according to claim 5, wherein the anti-VEGF agent is ranibizumab or bevacizumab.