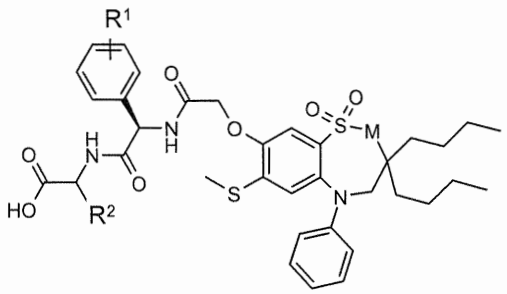
CLAIMS

1. ~~A~~Use of a compound of formula II



Formula II

wherein

M is CH_2 or NH;

R^1 is H or hydroxy;

R^2 is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;

or a pharmaceutically acceptable salt~~, solvate, solvate of such a salt or a prodrug~~ thereof,

in the manufacture of a medicament for ~~use in~~ the prophylaxis and/or treatment of a cholestatic liver disease selected from the group consisting of Alagilles syndrome (ALGS), progressive familial intrahepatic cholestasis (PFIC), primary biliary cirrhosis (PBC), primary sclerosing cholangitis (PSC), non-alcoholic steatohepatitis (NASH) and pruritus of cholestatic liver disease.

2. ~~A compound~~Use according to claim 1, ~~chosen from~~wherein the compound of formula II is selected from the group consisting of:

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{(R)-α-[N-(carboxymethyl)carbamoyl] benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8- (N-{(R)-α-[N'-((S)-1-carboxyethyl) carbamoyl] benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxypropyl) carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((R)-1-carboxy-2-methylthioethyl)carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxypropyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((R)-1-carboxy-2-methylthio-ethyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxy-2-methylpropyl)carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxy-2-(R)-hydroxypropyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxybutyl) carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxyethyl) carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8- (N-{(R)-α-[N'-((S)-1-carboxypropyl) carbamoyl]-4-hydroxybenzyl} carbamoylmethoxy)-2,3,4,5-tetrahydro-1, 5-benzothiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxyethyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxy-2-methylpropyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine; and

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{ (R)-1'-phenyl-1'-[N'-(carboxymethyl) carbamoyl]methyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine, or a pharmaceutically acceptable salt thereof.

~~3. A compound according to claim 1 or 2, wherein the liver disease is any one of liver parenchyma; an Inherited metabolic disorder of the liver; Byler syndrome; a primary defect of bile acid (BA) synthesis such as cerebrotendinous, or xanthomatosis; a secondary defect such as Zellweger's syndrome, neonatal hepatitis, cystic fibrosis, manifestations in the liver, ALGS (Alagilles syndrome), PFIC (progressive familial intrahepatic cholestasis, autoimmune hepatitis, primary biliary cirrhosis (PBC), liver fibrosis, non alcoholic fatty liver disease, NAFLD/NASH, portal hypertension, general cholestasis such as in jaundice due to drugs or during pregnancy, intra and extrahepatic cholestasis such as hereditary forms of~~

~~cholestasis such as PFIC1, Primary sclerosing cholangitis, gall stones and choledocholithiasis, malignancy causing obstruction of the biliary tree, symptoms (scratching, pruritus) due to cholestasis/jaundice, pancreatitis, chronic autoimmune liver disease leading to progressive cholestasis, or pruritus of cholestatic liver disease; a hepatic disorder or a hepatic related condition, fatty liver, hepatic steatosis, non-alcoholic steatohepatitis (NASH), alcoholic hepatitis, acute fatty liver, fatty liver of pregnancy, drug-induced hepatitis, iron overload disorders, hepatic fibrosis, hepatic cirrhosis, hepatoma, viral hepatitis and problems in relation to tumours and neoplasmas of the liver, of the biliary tract and of the pancreas.~~

3. Use according to claim 1 or 2, wherein the compound of formula II is 1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxypropyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine, or a pharmaceutically acceptable salt thereof.

4. Use according to claim 1 or 2, wherein the compound of formula II is 1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{(R)-1'-phenyl-1'-[N'-(carboxymethyl)carbamoyl]methyl}-carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine, or a pharmaceutically acceptable salt thereof.

5. Use according to any one of claims 1 to 4, wherein the cholestatic liver disease is Alagille syndrome (ALGS).

6. Use according to any one of claims 1 to 4, wherein the cholestatic liver disease is progressive familial intrahepatic cholestasis (PFIC).

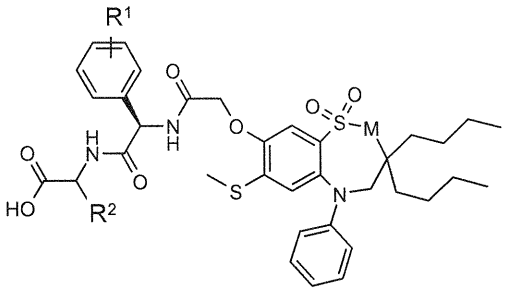
7. Use according to any one of claims 1 to 4, wherein the cholestatic liver disease is primary biliary cirrhosis (PBC).

8. Use according to any one of claims 1 to 4, wherein the cholestatic liver disease is primary sclerosing cholangitis (PSC).

9. Use according to any one of claims 1 to 4, wherein the cholestatic liver disease is non-alcoholic steatohepatitis (NASH).

10. Use according to any one of claims 1 to 4, wherein the cholestatic liver disease is pruritus of cholestatic liver disease.

411. AUse of a pharmaceutical composition comprising a compound of Formula (II)



Formula II

wherein

M is CH_2 or NH;

R^1 is H or hydroxy;

R^2 is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;

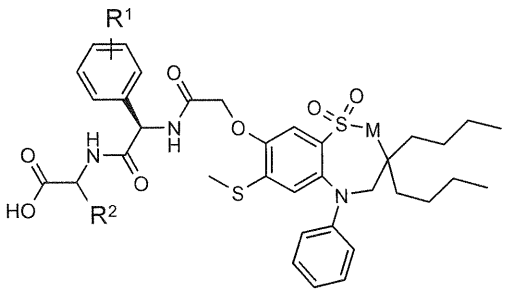
or a pharmaceutically acceptable salt~~, solvate, solvate of such a salt or a prodrug~~ thereof,

in the manufacture of a medicament for ~~use in~~ the prophylaxis and/or treatment of a cholestatic liver disease selected from the group consisting of Alagilles syndrome (ALGS), progressive familial intrahepatic cholestasis, (PFIC), primary biliary cirrhosis (PBC), primary sclerosing cholangitis (PSC), non-alcoholic steatohepatitis (NASH) and pruritus of cholestatic liver disease.

12. Use according to claim 11, wherein the compound of formula II is 1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxypropyl)carbamoyl]-4-hydroxybenzyl}-carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine, or a pharmaceutically acceptable salt thereof.

13. Use according to claim 11, wherein the compound of formula II is 1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{(R)-1'-phenyl-1'-[N'-(carboxymethyl)carbamoyl]methyl}-carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine, or a pharmaceutically acceptable salt thereof.

~~5. Use of a compound according to Formula (II)~~



Formula II

wherein

M is CH_2 or NH;

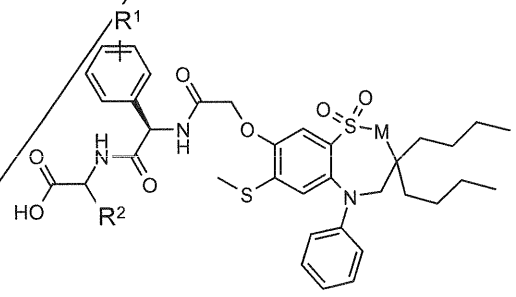
$\mathbf{R^1}$ is H or hydroxy;

$\mathbf{R^2}$ is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;

or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof,

for the manufacture of a medicament for use in the prophylaxis and/or treatment of a liver disease.

6. A method for the treatment and/or prophylaxis of a liver disease, whereby a compound of Formula (II)



Formula II

wherein

M is CH_2 or NH;

$\mathbf{R^1}$ is H or hydroxy;

$\mathbf{R^2}$ is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;

or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof,

is administered to a subject in need of such treatment.

7. A method according to claim 6, wherein the compound is selected from

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{(R)-α-[N-(carboxymethyl)carbamoyl] benzyl} carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{(R)-α-[N'-((S)-1-carboxyethyl) carbamoyl] benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxypropyl) carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((R)-1-carboxy-2-methylthioethyl)carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxypropyl) carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((R)-1-carboxy-2-methylthio-ethyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxy-2-methylpropyl)carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxy-2-(R)-hydroxypropyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxybutyl) carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxyethyl) carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

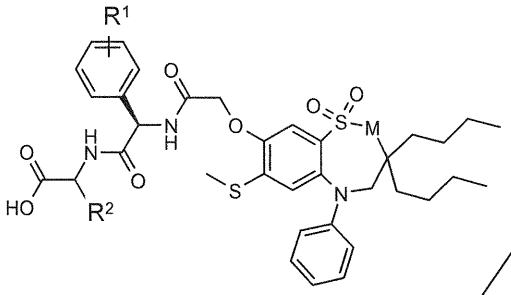
1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{(R)-α-[N'-((S)-1-carboxypropyl) carbamoyl]-4-hydroxybenzyl} carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxyethyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxy-2-methylpropyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine; and

1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{ (R)-1'-phenyl-1'-[N'-(carboxymethyl) carbamoyl] methyl} carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine.

8. A pharmaceutical combination for simultaneous or sequential administration, which contains a compound of formula II



Formula II

wherein

M is CH_2 or NH;

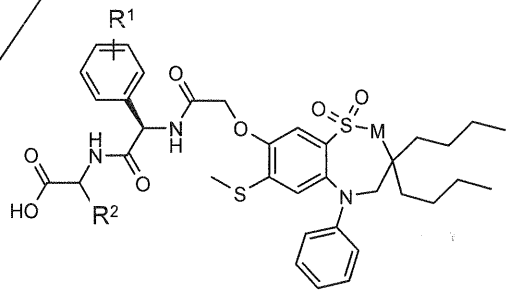
R^1 is H or hydroxy;

R^2 is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;

or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof,

and ursodeoxycholic acid, for use in the prophylaxis and/or treatment of a liver disease.

9. A pharmaceutical combination for simultaneous or sequential administration, which contains a compound of formula II



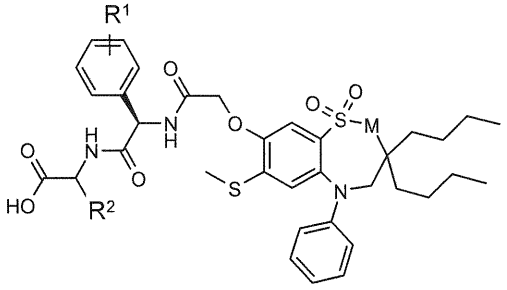
Formula II

~~wherein~~

~~**M** is CH_2 or NH;~~
~~R^1 is H or hydroxy;~~
~~R^2 is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;~~
~~or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof,~~

~~and nor-ursodeoxycholic acid, for use in the prophylaxis and/or treatment of a liver disease.~~

~~10~~14. Use of a compound of formula II



Formula II

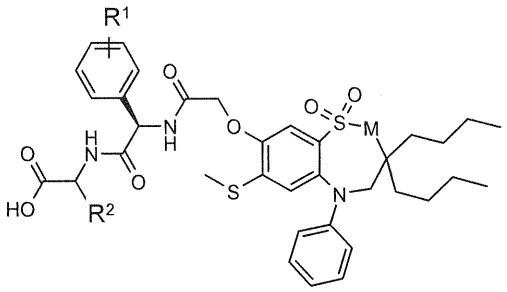
wherein

M is CH_2 or NH;
R^1 is H or hydroxy;
R^2 is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;
or a pharmaceutically acceptable salt~~, solvate, solvate of such a salt or a prodrug~~ thereof;

and ursodeoxycholic acid,

~~for~~in the manufacture of a combination for simultaneous or sequential administration in the prophylaxis and/or treatment of a cholestatic liver disease selected from the group consisting of Alagilles syndrome (ALGS), progressive familial intrahepatic cholestasis, (PFIC), primary biliary cirrhosis (PBC), primary sclerosing cholangitis (PSC), non-alcoholic steatohepatitis (NASH) and pruritus of cholestatic liver disease.

~~11~~15. Use of a compound of formula II



Formula II

wherein

M is CH_2 or NH;

R^1 is H or hydroxy;

R^2 is H, CH_3, $-CH_2CH_3$, $-CH_2CH_2CH_3$, $-CH_2CH_2CH_2CH_3$, $-CH(CH_3)_2$, $-CH_2CH(CH_3)_2$, $-CH(CH_3)CH_2CH_3$, $-CH_2OH$, $-CH_2OCH_3$, $-CH(OH)CH_3$, $-CH_2SCH_3$, or $-CH_2CH_2SCH_3$;

or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof,

and nor-ursodeoxycholic acid,

~~for~~in the manufacture of a combination for simultaneous or sequential administration in the prophylaxis and/or treatment of a cholestatic liver disease selected from the group consisting of Alagilles syndrome (ALGS), progressive familial intrahepatic cholestasis, (PFIC), primary biliary cirrhosis (PBC), primary sclerosing cholangitis (PSC), non-alcoholic steatohepatitis (NASH) and pruritus of cholestatic liver disease.

16. Use according to claim 14 or 15, wherein the compound of formula II is 1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)-α-[*N*-((S)-1-carboxypropyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine, or a pharmaceutically acceptable salt thereof.

17. Use according to claim 14 or 15, wherein the compound of formula II is 1,1-dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(N-{(R)-1'-phenyl-1'-[N'-(carboxymethyl)carbamoyl]methyl}-carbamoylmethoxy)-2,3,4,5-tetrahydro-1,5-benzothiazepine, or a pharmaceutically acceptable salt thereof.