57. 2-(9-Ethyl-9H-carbazol-3-yl)-1-(oxetan-3-ylmethyl)-1H-benzimidazole-5-carboxylic acid

58. 2-[9-(Cyclobutylmethyl)-9H-carbazol-3-yl]-1-(2-methoxyethyl)-1H-benzimidazole-5-carboxylic acid

59. 2-[9-(Cyclobutylmethyl)-9H-carbazol-3-yl]-1-(cyclopropylmethyl)-1H-benzimidazole-5-carboxylic acid

60. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[2-(trifluoromethoxy)ethyl]-1H-benzimidazole-5-carboxylic acid

61. 1-(Cyclopropylmethyl)-2-(9-ethyl-1-methyl-9H-beta-carbolin-3-yl)-1H-benzimidazole-5-carboxylic acid

62. 2-(9-Ethyl-9H-carbazol-3-yl)-1-(oxetan-2-ylmethyl)-1H-benzimidazole-5-carboxylic acid

63. 2-(9-Ethyl-9H-carbazol-3-yl)-1-(tetrahydrofuran-2-ylmethyl)-1H-benzimidazole-5-carboxylic acid

64. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[(2R)-2-hydroxy-3-methoxypropyl]-1H-benzimidazole-5-carboxylic acid

65. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[(2S)-2-hydroxy-3-methoxypropyl]-1H-benzimidazole-5-carboxylic acid

66. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[2-(methylsulphonyl)ethyl]-1H-benzimidazole-5-carboxylic acid

67. 1-(2-Cyclopropyl-2-hydroxyethyl)-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid

68. 1-[(2S)-2,3-Dihydroxypropyl]-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid

69. 1-(1,4-Dioxan-2-ylmethyl)-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid

70. 1-(1,4-Dioxan-2-ylmethyl)-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid

71. 2-(9-Ethyl-6-methyl-9H-carbazol-3-yl)-1-(2-methoxyethyl)-4-methyl-1H-benzimidazole-5-carboxylic acid

72. 2-(6-Chloro-9-ethyl-9H-carbazol-3-yl)-1-(2-methoxyethyl)-4-methyl-1H-benzimidazole-5-carboxylic acid

73. 2-(8-Chloro-9-ethyl-9H-carbazol-3-yl)-1-(2-methoxyethyl)-4-methyl-1H-benzimidazole-5-carboxylic acid

7. Compound of the formula (I), as defined in one of Claims 1 to 6, for use in the treatment and/or prophylaxis of diseases.

8. Compound of the formula (I), as defined in one of Claims 1 to 6, for use in the treatment and/or prophylaxis of endometriosis, of uterine leiomyomas, of uterine bleeding disorders, where the bleeding disorders can be severe and long-lasting bleeding, temporally irregular bleeding and pain, of dysmenorrhoea, of cancer, where the cancers can be lung, intestine, breast, skin, prostate, oesophageal cancer and leukaemia, of arteriosclerosis and of polycystic kidney diseases.

9. Use of a compound, such as defined in one of Claims 1 to 6, for the production of a medicament for the treatment and/or prophylaxis of endometriosis.

10. Use of a compound, such as defined in one of Claims 1 to 6, for the production of a medicament for the antagonism of EP4 receptor.

11. Medicament containing a compound, such as defined in one of Claims 1 to 6, in combination with one or more further active substances, in particular with selective oestrogen receptor modulators (SERMs), oestrogen receptor (ER) antagonists, aromatase inhibitors, 17β-HSD1 inhibitors, steroid sulphatase (STS) inhibitors, GnRH agonists and antagonists, kisspeptin receptor (KISSR) antagonists, selective androgen receptor modulators (SARMs), androgens, 5α-reductase inhibitors, selective progesterone receptor modulators (SPRMs), gestagens, antigestagens, oral contraceptives, inhibitors of mitogen activated protein (MAP) kinases and inhibitors of MAP kinases kinases (Mkk3/6, Mek1/2, Erk1/2), inhibitors of protein kinases B (PKBα/β/γ; Akt1/2/3), inhibitors of phosphoinositide-3 kinases (PI3K), inhibitors of cyclin-dependent kinase (CDK1/2), Inhibitors of the hypoxia-induced signal pathway (HIF1alpha inhibitors, activators of the prolylhydroxylases), histone deacetylase (HDAC) inhibitors, prostaglandin F receptor (FP) (PTGFR) antagonists, neurokinin 1 receptor antagonists, paracetamol, selective COX2 inhibitors and/or non-selective COX1/COX2 inhibitors.

12. Medicament containing a compound of the formula (I) such as defined in one of Claims 1 to 6, in combination with an inert, non-toxic, pharmaceutically suitable excipient.

13. Medicament according to Claim 11 or 12 for use in the treatment and/or prophylaxis of endometriosis, of uterine leiomyomas, of uterine bleeding disorders, where the bleeding disorders can be severe and long-lasting bleeding, temporally irregular

bleeding and pain, of dysmenorrhoea, of cancer, where the cancers can be lung, intestine, breast, skin, prostate, oesophageal cancer and leukaemia, of arteriosclerosis and of polycystic kidney diseases.

57. 2-(9-Ethyl-9H-carbazol-3-yl)-1-(oxetan-3-ylmethyl)-1H-benzimidazole-5-carboxylic acid
58. 2-[9-(Cyclobutylmethyl)-9H-carbazol-3-yl]-1-(2-methoxyethyl)-1H-benzimidazole-5-carboxylic acid
59. 2-[9-(Cyclobutylmethyl)-9H-carbazol-3-yl]-1-(cyclopropylmethyl)-1H-benzimidazole-5-carboxylic acid
60. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[2-(trifluoromethoxy)ethyl]-1H-benzimidazole-5-carboxylic acid
61. 1-(Cyclopropylmethyl)-2-(9-ethyl-1-methyl-9H-beta-carbolin-3-yl)-1H-benzimidazole-5-carboxylic acid
62. 2-(9-Ethyl-9H-carbazol-3-yl)-1-(oxetan-2-ylmethyl)-1H-benzimidazole-5-carboxylic acid
63. 2-(9-Ethyl-9H-carbazol-3-yl)-1-(tetrahydrofuran-2-ylmethyl)-1H-benzimidazole-5-carboxylic acid
64. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[(2R)-2-hydroxy-3-methoxypropyl]-1H-benzimidazole-5-carboxylic acid
65. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[(2S)-2-hydroxy-3-methoxypropyl]-1H-benzimidazole-5-carboxylic acid
66. 2-(9-Ethyl-9H-carbazol-3-yl)-1-[2-(methylsulphonyl)ethyl]-1H-benzimidazole-5-carboxylic acid
67. 1-(2-Cyclopropyl-2-hydroxyethyl)-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid
68. 1-[(2S)-2,3-Dihydroxypropyl]-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid
69. 1-(1,4-Dioxan-2-ylmethyl)-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid
70. 1-(1,4-Dioxan-2-ylmethyl)-2-(9-ethyl-9H-carbazol-3-yl)-1H-benzimidazole-5-carboxylic acid
71. 2-(9-Ethyl-6-methyl-9H-carbazol-3-yl)-1-(2-methoxyethyl)-4-methyl-1H-benzimidazole-5-carboxylic acid
72. 2-(6-Chloro-9-ethyl-9H-carbazol-3-yl)-1-(2-methoxyethyl)-4-methyl-1H-benzimidazole-5-carboxylic acid
73. 2-(8-Chloro-9-ethyl-9H-carbazol-3-yl)-1-(2-methoxyethyl)-4-methyl-1H-benzimidazole-5-carboxylic acid

7. Compound of the formula (I) according to any one of Claims 1 to 6, for use in the treatment and/or prophylaxis of diseases.

8. Compound of the formula (I) according to any one of Claims 1 to 6, for use in the treatment and/or prophylaxis of endometriosis.

9. Use of a compound according to any one of Claims 1 to 6, for the production of a medicament for the treatment and/or prophylaxis of endometriosis.

10. Medicament containing a compound according to any one of Claims 1 to 6, in combination with one or more further active substances, in particular with selective oestrogen receptor modulators (SERMs), oestrogen receptor (ER) antagonists, aromatase inhibitors, 17β-HSD1 inhibitors, steroid sulphatase (STS) inhibitors, GnRH agonists and antagonists, kisspeptin receptor (KISSR) antagonists, selective androgen receptor modulators (SARMs), androgens, 5α-reductase inhibitors, selective progesterone receptor modulators (SPRMs), gestagens, antigestagens, oral contraceptives, inhibitors of mitogen activated protein (MAP) kinases and inhibitors of MAP kinases kinases (Mkk3/6, Mek1/2, Erk1/2), inhibitors of protein kinases B (PKB$\alpha/\beta/\gamma$; Akt1/2/3), inhibitors of phosphoinositide-3 kinases (PI3K), inhibitors of cyclin-dependent kinase (CDK1/2), Inhibitors of the hypoxia-induced signal pathway (HIF1alpha inhibitors, activators of the prolylhydroxylases), histone deacetylase (HDAC) inhibitors, prostaglandin F receptor (FP) (PTGFR) antagonists, neurokinin 1 receptor antagonists, paracetamol, selective COX2 inhibitors and/or non-selective COX1/COX2 inhibitors.

11. Medicament containing a compound of the formula (I) according to any one of Claims 1 to 6, in combination with an inert, non-toxic, pharmaceutically suitable excipient.

12. Medicament according to Claim 10 or 11 for use in the treatment and/or prophylaxis of endometriosis.