SEQUENCE LISTING

<110> CNRS
BARRERE, Stéphanie

<120> Inhibitors of Apoptosis and Uses Thereof

<130> BCT110406QT

<150> PCT/IB2010/003158
<151> 2010-11-18

<160> 61

<170> PatentIn version 3.5

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Glu Ala Ala Ala Gln Pro Gly Pro Ser His Pro Leu Pro Asn Ala Ala
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Ser Pro Gly Ala Glu Ala Pro Ser Ser Ser Glu Pro His Gly Ala Arg
35 40 45

Gly Ser Ser Ser Ser Gly Gly Lys Lys Cys Tyr Lys Leu Glu Asn Glu
50 55 60

Lys Leu Phe Glu Glu Phe Leu Glu Leu Cys Lys Met Gln Thr Ala Asp
65 70 75 80

His Pro Glu Val Val Pro Phe Leu Tyr Asn Arg Gln Gln Arg Ala His
85 90 95

Ser Leu Phe Leu Ala Ser Ala Glu Phe Cys Asn Ile Leu Ser Arg Val
100 105 110

Leu Ser Arg Ala Arg Ser Arg Pro Ala Lys Leu Tyr Val Tyr Ile Asn
115 120 125

Glu Leu Cys Thr Val Leu Lys Ala His Ser Ala Lys Lys Lys Leu Asn
130 135 140

Leu Ala Pro Ala Ala Thr Thr Ser Asn Glu Pro Ser Gly Asn Asn Pro
145 150 155 160

Pro Thr His Leu Ser Leu Asp Pro Thr Asn Ala Glu Asn Thr Ala Ser
165 170 175

Gln Ser Pro Arg Thr Arg Gly Ser Arg Arg Gln Ile Gln Arg Leu Glu

180 185 190

Gln Leu Leu Ala Leu Tyr Val Ala Glu Ile Arg Arg Leu Gln Glu Lys
195 200 205

Glu Leu Asp Leu Ser Glu Leu Asp Asp Pro Asp Ser Ala Tyr Leu Gln
210 215 220

Glu Ala Arg Leu Lys Arg Lys Leu Ile Arg Leu Phe Gly Arg Leu Cys
225 230 235 240

Glu Leu Lys Asp Cys Ser Ser Leu Thr Gly Arg Val Ile Glu Gln Arg
245 250 255

Ile Pro Tyr Arg Gly Thr Arg Tyr Pro Glu Val Asn Arg Arg Ile Glu
260 265 270

Arg Leu Ile Asn Lys Pro Gly Pro Asp Thr Phe Pro Asp Tyr Gly Asp
275 280 285

Val Leu Arg Ala Val Glu Lys Ala Ala Ala Arg His Ser Leu Gly Leu
290 295 300

Pro Arg Gln Gln Leu Gln Leu Met Ala Gln Asp Ala Phe Arg Asp Val
305 310 315 320

Gly Ile Arg Leu Gln Glu Arg Arg His Leu Asp Leu Ile Tyr Asn Phe
325 330 335

Gly Cys His Leu Thr Asp Asp Tyr Arg Pro Gly Val Asp Pro Ala Leu
340 345 350

Ser Asp Pro Val Leu Ala Arg Arg Leu Arg Glu Asn Arg Ser Leu Ala
355 360 365

Met Ser Arg Leu Asp Glu Val Ile Ser Lys Tyr Ala Met Leu Gln Asp
370 375 380

Lys Ser Glu Glu Gly Glu Arg Lys Lys Arg Arg Ala Arg Leu Gln Gly
385 390 395 400

Thr Ser Ser His Ser Ala Asp Thr Pro Glu Ala Ser Leu Asp Ser Gly
405 410 415

Glu Gly Pro Ser Gly Met Ala Ser Gln Gly Cys Pro Ser Ala Ser Arg
420 425 430

Ala Glu Thr Asp Asp Glu Asp Asp Glu Glu Ser Asp Glu Glu Glu Glu
435 440 445

Glu Glu Glu Glu Glu Glu Glu Glu Glu Ala Thr Asp Ser Glu Glu Glu

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Glu Asp Leu Glu Gln Met Gln Glu Gly Gln Glu Asp Asp Glu Glu Glu
465                 470                 475                 480

Asp Glu Glu Glu Glu Ala Ala Ala Gly Lys Asp Gly Asp Lys Ser Pro
                485                 490                 495

Met Ser Ser Leu Gln Ile Ser Asn Glu Lys Asn Leu Glu Pro Gly Lys
            500                 505                 510

Gln Ile Ser Arg Ser Ser Gly Glu Gln Gln Asn Lys Gly Arg Ile Val
        515                 520                 525

Ser Pro Ser Leu Leu Ser Glu Glu Pro Leu Ala Pro Ser Ser Ile Asp
    530                 535                 540

Ala Glu Ser Asn Gly Glu Gln Pro Glu Glu Leu Thr Leu Glu Glu Glu
545                 550                 555                 560

Ser Pro Val Ser Gln Leu Phe Glu Leu Glu Ile Glu Ala Leu Pro Leu
                565                 570                 575

Asp Thr Pro Ser Ser Val Glu Thr Asp Ile Ser Ser Ser Arg Lys Gln
            580                 585                 590

Ser Glu Glu Pro Phe Thr Thr Val Leu Glu Asn Gly Ala Gly Met Val
        595                 600                 605

Ser Ser Thr Ser Phe Asn Gly Gly Val Ser Pro His Asn Trp Gly Asp
    610                 615                 620

Ser Gly Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly
625                 630                 635                 640

Ser Gly Pro Leu Gly Asn Ser Tyr Val Glu Arg Gln Arg Ser Val His
                645                 650                 655

Glu Lys Asn Gly Lys Lys Ile Cys Thr Leu Pro Ser Pro Pro Ser Pro
            660                 665                 670

Leu Ala Ser Leu Ala Pro Val Ala Asp Ser Ser Thr Arg Val Asp Ser
        675                 680                 685

Pro Ser His Gly Leu Val Thr Ser Ser Leu Cys Ile Pro Ser Pro Ala
    690                 695                 700

Arg Leu Ser Gln Thr Pro His Ser Gln Pro Pro Arg Pro Gly Thr Cys
705                 710                 715                 720

Lys Thr Ser Val Ala Thr Gln Cys Asp Pro Glu Glu Ile Ile Val Leu
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Ser Asp Ser Asp
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Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
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Ser Gly Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr
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Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly
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Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
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Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
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Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly Asn Ser Tyr
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Met Asp Pro Phe Leu Val Leu Leu His Ser Val Ser Ser Ser Leu Ser
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Ser Ser Glu Leu Thr Glu Leu Lys Phe Leu Cys Leu Gly Arg Val Gly
20 25 30

Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp Leu Phe Ser Met
35 40 45

Leu Leu Glu Gln Asn Asp Leu Glu Pro Gly His Thr Glu Leu Leu Arg
50 55 60

Glu Leu Leu Ala Ser Leu Arg Arg His Asp Leu Leu Arg Arg Val Asp
65 70 75 80

Asp Phe Glu Ala Gly Ala Ala Ala Gly Ala Ala Pro Gly Glu Glu Asp
85 90 95

Leu Cys Ala Ala Phe Asn Val Ile Cys Asp Asn Val Gly Lys Asp Trp
100 105 110

Arg Arg Leu Ala Arg Gln Leu Lys Val Ser Asp Thr Lys Ile Asp Ser
115 120 125

Ile Glu Asp Arg Tyr Pro Arg Asn Leu Thr Glu Arg Val Arg Glu Ser
130 135 140

Leu Arg Ile Trp Lys Asn Thr Glu Lys Glu Asn Ala Thr Val Ala His
145 150 155 160

Leu Val Gly Ala Leu Arg Ser Cys Gln Met Asn Leu Val Ala Asp Leu
165 170 175

Val Gln Glu Val Gln Gln Ala Arg Asp Leu Gln Asn Arg Ser Gly Ala
180 185 190

Met Ser Pro Met Ser Trp Asn Ser Asp Ala Ser Thr Ser Glu Ala Ser
195 200 205

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Val Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp Leu
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Leu Gly Arg Val Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly
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Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp Leu Phe Ser Met
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Lys Arg Lys Leu Glu Arg Val Gln Ser
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<213> Homo sapiens

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Ala Lys Leu Tyr Val Tyr Ile Asn Glu Leu Cys Thr Val Leu Lys
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Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
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Lys Arg Phe Arg Lys Glu Lys Lys Gln Leu Gly Ser Gly Leu Leu Gly
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Lys Lys Gly Arg Lys Gln Ser Gly Glu Ser Leu Gly Thr Pro Lys Lys
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<400> 17

Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
1 5 10 15

Asn

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<213> Homo sapiens

<400> 18

Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
1 5 10 15

Asn Ser

<210> 19
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<400> 19

Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
1 5 10 15

Asn Ser Tyr

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<400> 20

Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
1 5 10 15

Asn Ser Tyr Val
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Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu
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Gly

<210> 22
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<400> 22

Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro
1 5 10 15

Leu Gly

<210> 23
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<400> 23

Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly
1 5 10 15

Pro Leu Gly

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Gly Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser
1 5 10 15

Gly Pro Leu Gly

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Ser Gly Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly
1 5 10 15

Ser Gly Pro Leu Gly
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Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu
1 5 10 15

Gly Asn

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<400> 27

Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu
1 5 10 15

Gly Asn Ser

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Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu
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Gly Asn Ser Tyr
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Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu
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Gly Asn Ser Tyr Val
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Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro
1 5 10 15

Leu Gly Asn

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<400> 31

Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro
1 5 10 15

Leu Gly Asn Ser
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<400> 32

Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro
1 5 10 15

Leu Gly Asn Ser Tyr
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Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro
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Leu Gly Asn Ser Tyr Val
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Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly
1 5 10 15

Pro Leu Gly Asn
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<400> 35

Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly
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Pro Leu Gly Asn Ser
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Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly
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Pro Leu Gly Asn Ser Tyr
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Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly
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Pro Leu Gly Asn Ser Tyr Val
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Gly Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser
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Gly Pro Leu Gly Asn
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Gly Pro Leu Gly Asn Ser
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Gly Pro Leu Gly Asn Ser Tyr
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Gly Pro Pro Cys Lys Lys Ser Arg Lys Glu Lys Lys Gln Thr Gly Ser
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Gly Pro Leu Gly Asn Ser Tyr Val
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Ser Gly Pro Leu Gly Asn
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Ser Gly Pro Leu Gly Asn Ser Tyr
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Lys Arg Lys Leu Glu Arg Val Gln Ser Gly
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Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu
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Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp
1 5 10

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<400> 48

Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp Leu
1 5 10

<210> 49
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Arg Lys Arg Lys Leu Glu Arg Val Gln Ser
1 5 10

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Lys Arg Lys Arg Lys Leu Glu Arg Val Gln Ser
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<400> 51

Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly
1 5 10

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Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu
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<400> 53

Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp
1 5 10

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<212> PRT
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Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp Leu
1 5 10

<210> 55
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Val Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly
1 5 10

<210> 56
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<212> PRT
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Val Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu
1 5 10

<210> 57
<211> 14
<212> PRT
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Val Gly Lys Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp
1 5 10

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Arg Lys Glu Lys Lys Gln Thr Gly Ser Gly Pro Leu Gly
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<210> 59
<211> 22
<212> PRT
<213> Artificial Sequence

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<400> 59

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Lys Arg Lys
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Leu Glu Arg Val Gln Ser
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Arg Lys Leu Glu Arg Val Gln Ser Gly Leu Asp Leu
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Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Lys Arg Phe
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Arg Lys Glu Lys Lys Gln Leu Gly Ser Gly Leu Leu Gly
20 25