SEQUENCE LISTING

<110> InflaRx GmbH

<120> Anti-C5a Binding Moieties With High Blocking Activity

<130> 680-2 PCT

<160> 69

<170> PatentIn version 3.5

<210> 1
<211> 74
<212> PRT
<213> Homo sapiens

<400> 1

Thr Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser
1 5 10 15

Val Val Lys Lys Cys Cys Tyr Asp Gly Ala Cys Val Asn Asn Asp Glu
20 25 30

Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu Gly Pro Arg Cys Ile
35 40 45

Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg Ala Asn
50 55 60

Ile Ser His Lys Asp Met Gln Leu Gly Arg
65 70

<210> 2
<211> 9
<212> PRT
<213> Homo sapiens

<400> 2

Asn Asp Glu Thr Cys Glu Gln Arg Ala
1 5

<210> 3
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3

Ser His Lys Asp Met Gln Leu
1 5

<210> 4
<211> 7
<212> PRT
<213> Homo sapiens

<400> 4

Asp Glu Thr Cys Glu Gln Arg
1 5

<210> 5
<211> 5
<212> PRT
<213> Homo sapiens

<400> 5

His Lys Asp Met Gln
1 5

<210> 6
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 CDR3 heavy chain

<400> 6

Cys Ala Arg Gly Asn Asp Gly Tyr Tyr Gly Phe Ala Tyr
1 5 10

<210> 7
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 CDR3 heavy chain

<400> 7

Cys Thr Arg Arg Gly Leu Tyr Asp Gly Ser Ser Tyr Phe Ala Tyr
1 5 10 15

<210> 8
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 CDR3 light chain

<400> 8

Cys Gln Gln Ser Asn Glu Asp Pro Tyr Thr
1 5 10

<210> 9
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 CDR3 light chain

<400> 9

Cys Gln Gln Asn Asn Glu Asp Pro Leu Thr

1 5 10

<210> 10
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 CDR2 heavy chain

<400> 10

Ile Asp Pro Ser Asp Ser Glu Ser Arg Leu Asp Gln
1 5 10

<210> 11
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 CDR2 heavy chain

<400> 11

Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Asn Glu
1 5 10

<210> 12
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 CDR2 light chain

<400> 12

Ile Tyr Ala Ala Ser Asn Leu
1 5

<210> 13
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 CDR2 light chain

<400> 13

Ile Tyr Ala Ala Ser Asn Leu
1 5

<210> 14
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 CDR1 heavy chain

<400> 14

Cys Lys Ala Ser Gly Tyr Ser Phe Thr Thr Phe Trp Met Asp
1 5 10

<210> 15
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 CDR1 heavy chain

<400> 15

Cys Lys Ala Thr Gly Asn Thr Phe Ser Gly Tyr Trp Ile Glu
1 5 10

<210> 16
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 CDR1 light chain

<400> 16

Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr Met Lys
1 5 10 15

<210> 17
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 CDR1 light chain

<400> 17

Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr Met Asn
1 5 10 15

<210> 18
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus sequence of C5a in the region of amino acids 30-38

<220>
<221> VARIANT
<222> (1)..(1)
<223> N, H, D, F, K, Y, or T

<220>
<221> VARIANT
<222> (2)..(2)
<223> D, L, Y, or H

<220>
<221> VARIANT

<222> (6)..(6)
<223> Q, E, or K

<220>
<221> VARIANT
<222> (8)..(8)
<223> A, V, or L

<400> 18

Asn Asp Glu Thr Cys Glu Gln Arg Ala
1 5

<210> 19
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus sequence of C5a in the region of amino acids 66-72

<220>
<221> VARIANT
<222> (1)..(1)
<223> S, H, P, or N

<220>
<221> VARIANT
<222> (2)..(2)
<223> H or N

<220>
<221> VARIANT
<222> (4)..(4)
<223> D, N, H, P, or G

<220>
<221> VARIANT
<222> (5)..(5)
<223> M, L, I, or V

<220>
<221> VARIANT
<222> (6)..(6)
<223> Q, L, or I

<400> 19

Ser His Lys Asp Met Gln Leu
1 5

<210> 20
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus sequence of C5a in the region of amino acids 31-37

<220>
<221> VARIANT
<222> (1)..(1)
<223> D, L, Y, or H

<220>
<221> VARIANT
<222> (6)..(6)
<223> Q, E, or K

<400> 20

Asp Glu Thr Cys Glu Gln Arg
1 5

<210> 21
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus sequence of C5 in the region of amino acids 67-71

<220>
<221> VARIANT
<222> (1)..(1)
<223> H or N

<220>
<221> VARIANT
<222> (3)..(3)
<223> D, N, H, P, or G

<220>
<221> VARIANT
<222> (4)..(4)
<223> M, L, I, or V

<220>
<221> VARIANT
<222> (5)..(5)
<223> Q, L, or I

<400> 21

His Lys Asp Met Gln
1 5

<210> 22
<211> 9
<212> PRT
<213> Macaca mulatta

<400> 22

His Asp Glu Thr Cys Glu Gln Arg Ala
1 5

<210> 23
<211> 7
<212> PRT
<213> Macaca mulatta

<400> 23

Ser His Lys Asp Leu Gln Leu
1 5

<210> 24
<211> 9
<212> PRT
<213> Sus scrofa

<400> 24

Asp Asp Glu Thr Cys Glu Glu Arg Ala
1 5

<210> 25
<211> 7
<212> PRT
<213> Sus scrofa

<400> 25

Ser His Lys Asn Ile Gln Leu
1 5

<210> 26
<211> 9
<212> PRT
<213> Equus caballus

<400> 26

Asp Leu Glu Thr Cys Glu Gln Arg Ala
1 5

<210> 27
<211> 7
<212> PRT
<213> Equus caballus

<400> 27

Ser His Lys His Ile Gln Leu
1 5

<210> 28
<211> 9
<212> PRT
<213> Bos taurus

<400> 28

Asp Asp Glu Thr Cys Glu Gln Arg Ala
1 5

<210> 29
<211> 7
<212> PRT
<213> Bos taurus

<400> 29

His His Lys Asn Met Gln Leu
1 5

<210> 30
<211> 9

<212> PRT
<213> Mus musculus

<400> 30

Phe Tyr Glu Thr Cys Glu Glu Arg Val
1 5

<210> 31
<211> 7
<212> PRT
<213> Mus musculus

<400> 31

Pro His Lys Pro Val Gln Leu
1 5

<210> 32
<211> 9
<212> PRT
<213> Rattus norvegicus

<400> 32

Lys Tyr Glu Thr Cys Glu Gln Arg Val
1 5

<210> 33
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 33

His His Lys Gly Met Leu Leu
1 5

<210> 34
<211> 9
<212> PRT
<213> Canis lupus

<400> 34

Tyr Asp Glu Thr Cys Glu Gln Arg Ala
1 5

<210> 35
<211> 7
<212> PRT
<213> Canis lupus

<400> 35

Ser Asn Lys Pro Leu Gln Leu
1 5

<210> 36
<211> 9
<212> PRT
<213> Monodelphis domestica

<400> 36

Thr His Glu Thr Cys Glu Lys Arg Leu
1 5

<210> 37
<211> 7
<212> PRT
<213> Monodelphis domestica

<400> 37

Asn His Lys Pro Val Ile Leu
1 5

<210> 38
<211> 7
<212> PRT
<213> Sus scrofa

<400> 38

Asp Glu Thr Cys Glu Glu Arg
1 5

<210> 39
<211> 7
<212> PRT
<213> Equus caballus

<400> 39

Leu Glu Thr Cys Glu Gln Arg
1 5

<210> 40
<211> 7
<212> PRT
<213> Mus musculus

<400> 40

Tyr Glu Thr Cys Glu Glu Arg
1 5

<210> 41
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 41

Tyr Glu Thr Cys Glu Gln Arg
1 5

<210> 42
<211> 7
<212> PRT
<213> Monodelphis domestica

<400> 42

His Glu Thr Cys Glu Lys Arg
1 5

<210> 43
<211> 5
<212> PRT
<213> Macaca mulatta

<400> 43

His Lys Asp Leu Gln
1 5

<210> 44
<211> 5
<212> PRT
<213> Sus scrofa

<400> 44

His Lys Asn Ile Gln
1 5

<210> 45
<211> 5
<212> PRT
<213> Equus caballus

<400> 45

His Lys His Ile Gln
1 5

<210> 46
<211> 5
<212> PRT
<213> Bos taurus

<400> 46

His Lys Asn Met Gln
1 5

<210> 47
<211> 5
<212> PRT
<213> Mus musculus

<400> 47

His Lys Pro Val Gln
1 5

<210> 48
<211> 5
<212> PRT
<213> Rattus norvegicus

<400> 48

His Lys Gly Met Leu

1 5

<210> 49
<211> 5
<212> PRT
<213> Canis lupus

<400> 49

Asn Lys Pro Leu Gln
1 5

<210> 50
<211> 5
<212> PRT
<213> Monodelphis domestica

<400> 50

His Lys Pro Val Ile
1 5

<210> 51
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR1 heavy chain

<400> 51

Gln Val Gln Leu Gln Gln Ser Gly Pro Gln Leu Val Arg Pro Gly Thr
1 5 10 15

Ser Val Lys Ile Ser
20

<210> 52
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR2 heavy chain

<400> 52

Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Arg
1 5 10 15

<210> 53
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR3 heavy chain

<400> 53

Arg Phe Lys Asp Arg Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr

1 5 10 15

Val Tyr Met Gln Leu Ser Ser Pro Thr Ser Glu Asp Ser Ala Val Tyr
20 25 30

Tyr

<210> 54
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR4 heavy chain

<400> 54

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
1 5 10

<210> 55
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR1 light chain

<400> 55

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Gln Arg Ala Thr Ile Ser
20

<210> 56
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR2 light chain

<400> 56

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu
1 5 10

<210> 57
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR3 light chain

<400> 57

Gln Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp

1 5 10 15

Phe Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr
20 25 30

Tyr

<210> 58
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> INab308 FR4 light chain

<400> 58

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 59
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR1 heavy chain

<400> 59

Val Gln Leu Leu Glu Ser Gly Ala Glu Leu Met Lys Pro Gly Ala Ser
1 5 10 15

Val Lys Ile Ser
20

<210> 60
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR2 heavy chain

<400> 60

Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile Gly Glu
1 5 10 15

<210> 61
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR3 heavy chain

<400> 61

Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Thr Ser Ser Asn Thr

1 5 10 15

Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr
20 25 30

Tyr

<210> 62
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR4 heavy chain

<400> 62

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
1 5 10

<210> 63
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR1 light chain

<400> 63

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Gln Arg Ala Thr Ile Ser
20

<210> 64
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR2 light chain

<400> 64

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu
1 5 10

<210> 65
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR3 light chain

<400> 65

Gly Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp

1 5 10 15

Phe Thr Leu Asn Ile His Pro Val Glu Glu Glu Val Ala Ala Thr Tyr
20 25 30

Tyr

<210> 66
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> INab708 FR4 light chain

<400> 66

Phe Gly Ala Gly Thr Leu Leu Glu Leu Lys
1 5 10

<210> 67
<211> 13
<212> PRT
<213> Homo sapiens

<400> 67

Val Asn Asn Asp Glu Thr Cys Glu Gln Arg Ala Ala Arg
1 5 10

<210> 68
<211> 6
<212> PRT
<213> Homo sapiens

<400> 68

Ile Ser His Lys Asp Met
1 5

<210> 69
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide linker

<400> 69

Gly Gly Gly Gly Ser
1 5