

Sequence Listing
SEQUENCE LISTING

<110> MITSUI CHEMICALS, INC.

<120> DESTRUCTION METHOD OF EXOSOMES

<130> MC-70872WO

<150> JP2015-049136

<151> 2015-03-12

<160> 53

<170> PatentIn version 3.5

<210> 1

<211> 23

<212> PRT

<213> Xenopus laevis

<220>

<223> Synthetic antibacterial peptide

<400> 1

Gly	Ile	Gly	Lys	Phe	Leu	His	Ser	Ala	Lys	Lys	Phe	Gly	Lys	Ala	Phe
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Val	Gly	Glu	Ile	Met	Asn	Ser									
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<210> 2

<211> 34

<212> PRT

<213> Lactococcus lactis

<220>

<223> Antibacterial peptide, containing five cross-linking bonds

<400> 2

Ile	Dhb	Lan	Ile	Dha	Leu	Lan	Abu	Pro	Gly	Lan	Lys	Abu	Gly	Ala	Leu
				5					10					15	
Met	Gly	Lan	Asn	Met	Lys	Abu	Ala	Abu	Lan	His	Lan	Ser	Ile	His	Val
			20					25					30		
Dha	Lys														

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<211> 25

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<213> Bos taurus

<220>

<223> Synthetic antibacterial peptide, containing one S-S bond

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Phe	Lys	Cys	Arg	Arg	Trp	Gln	Trp	Arg	Met	Lys	Lys	Leu	Gly	Ala	Pro
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Ser	Ile	Thr	Cys	Val	Arg	Arg	Ala	Phe							
			20					25							

<210> 4

<211> 37

<212> PRT

<213> Homo sapiens

<220>

Sequence Listing

<223> Synthetic antibacterial peptide
<400> 4

Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu
5 10 15
Phe Lys Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val
20 25 30
Pro Arg Thr Glu Ser
35

<210> 5
<211> 26
<212> PRT
<213> Apis mellifera

<220>
<223> Synthetic antibacterial peptide
<400> 5

Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
5 10 15
Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
20 25

<210> 6
<211> 38
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic antibacterial peptide
<400> 6

Gly Ile Gly Lys Phe Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe
5 10 15
Val Gly Glu Ile Met Asn Ser Gly Gly Gln Arg Leu Gly Asn Gln Trp
20 25 30
Ala Val Gly His Leu Met
35

<210> 7
<211> 34
<212> PRT
<213> Mus musculus

<220>
<223> Synthetic antibacterial peptide
<400> 7

Gly Leu Leu Arg Lys Gly Gly Glu Lys Ile Gly Glu Lys Leu Lys Lys
5 10 15
Ile Gly Gln Lys Ile Lys Asn Phe Phe Gln Lys Leu Val Pro Gln Pro
20 25 30
Glu Gln

<210> 8
<211> 25
<212> PRT
<213> Litoria splendida

<220>
<223> Synthetic antibacterial peptide
<400> 8

Sequence Listing

Gly Leu Leu Ser Val Leu Gly Ser Val Ala Lys His Val Leu Pro His
5 10 15
Val Val Pro Val Ile Ala Glu His Leu
20 25

<210> 9
<211> 27
<212> PRT
<213> Bombina maxima

<220>
<223> Synthetic antibacterial peptide, c-terminus amidated
<400> 9

Gly Ile Gly Thr Lys Ile Leu Gly Gly Val Lys Thr Ala Leu Lys Gly
5 10 15
Ala Leu Lys Glu Leu Ala Ser Thr Tyr Ala Asn
20 25

<210> 10
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<213> Bombina maxima

<220>
<223> Synthetic antibacterial peptide
<400> 10

Gly Ile Gly Gly Val Leu Leu Ser Ala Gly Lys Ala Ala Leu Lys Gly
5 10 15
Leu Ala Lys Val Leu Ala Glu Lys Tyr Ala Asn
20 25

<210> 11
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<213> Phyllomedusa sauvagii

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<223> Synthetic antibacterial peptide
<400> 11

Ala Leu Trp Lys Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His
5 10 15
Ala Gly Lys Ala Ala Leu Gly Ala Ala Asp Thr Ile Ser Gln Gly
20 25 30
Thr Gln

<210> 12
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<213> Litoria genimaculate

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<223> Synthetic antibacterial peptide
<400> 12

Gly Leu Leu Gln Thr Ile Lys Glu Lys Leu Glu Ser Leu Glu Ser Leu
5 10 15
Ala Lys Gly Ile Val Ser Gly Ile Gln Ala
20 25

Sequence Listing

<210> 13
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 <212> PRT
 <213> Tityus serrulatus

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 <400> 13

Phe Leu Gly Met Ile Pro Gly Leu Ile Gly Gly Leu Ile Ser Ala Phe
 5 10 15
 Lys

<210> 14
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 <212> PRT
 <213> Pleuronectes americanus

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 <223> Synthetic antibacterial peptide, c-terminus amidated
 <400> 14

Gly Arg Arg Lys Arg Lys Trp Leu Arg Arg Ile Gly Lys Gly Val Lys
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 Ile Ile Gly Gly Ala Ala Leu Asp His Leu
 20 25

<210> 15
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 <212> PRT
 <213> Ascaphus truei

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 <223> Synthetic antibacterial peptide
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Gly Phe Lys Asp Leu Leu Lys Gly Ala Ala Lys Ala Leu Val Lys Thr
 5 10 15
 Val Leu Phe

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 <213> Polybia paulista

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 <400> 16

Ile Asp Trp Lys Lys Leu Leu Asp Ala Ala Lys Gln Ile Leu
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<210> 17
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 <223> Synthetic antibacterial peptide, c-terminus amidated
 <400> 17

Sequence Listing

Lys Ile Leu Arg Gly Val Cys Lys Lys Ile Met Arg Thr Phe Leu Arg
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 Arg Ile Ser Lys Asp Ile Leu Thr Gly Lys Lys
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 <223> Synthetic antibacterial peptide, c-terminus amidated
 <400> 18

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 Ile His Gly Leu Val
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<220>
 <223> Synthetic antibacterial peptide, c-terminus amidated
 <400> 19

Gly Ile Ile Lys Lys Ile Ile Lys Lys Ile Ile Lys Lys Ile Ile Lys
 5 10 15
 Lys Ile

<210> 20
 <211> 33
 <212> PRT
 <213> Pardachirus marmoratus

<220>
 <223> Synthetic antibacterial peptide
 <400> 20

Gly Phe Phe Ala Leu Ile Pro Lys Ile Ile Ser Ser Pro Leu Phe Lys
 5 10 15
 Thr Leu Leu Ser Ala Val Gly Ser Ala Leu Ser Ser Ser Gly Gly Gln
 20 25 30
 Glu

<210> 21
 <211> 25
 <212> PRT
 <213> Pleuronectes ferruginea

<220>
 <223> Synthetic antibacterial peptide
 <400> 21

Arg Trp Gly Lys Trp Phe Lys Lys Ala Thr His Val Gly Lys His Val
 5 10 15
 Gly Lys Ala Ala Leu Thr Ala Tyr Leu
 20 25

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<210>	22
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<212>	PRT
<213>	Artificial sequence

<220>
<223> synthetic antibacterial peptide
<400>
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Leu Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Leu Leu

<210> 23
<211> 23
<212> PRT
<213> Xenopus laevis

<220>
<223> Synthetic antibacterial peptide
<400>
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Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe
5 10 15
Val Gly Glu Ile Met Lys Ser
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<210>	24
<211>	21
<212>	PRT
<213>	Bufo bufo gargarizans

<220>
<223> Synthetic antibacterial peptide
<400>
24

Arg Ala Gly Leu Gln Phe Pro Val Gly Arg Leu Leu Arg Arg Leu Leu
5 10 15
Arg Arg Leu Leu Arg
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<210> 25
<211> 27
<212> PRT
<213> Streptococcus pneumoniae
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<220>
<223> Synthetic antibacterial peptide
<400>
25

Met Arg Lys Glu Phe His Asn Val Leu Ser Ser Gly Gln Leu Leu Ala
5 10 15
Asp Lys Arg Pro Ala Arg Asp Tyr Asn Arg Lys
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<210>	26
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<212>	PRT
<213>	Artificial sequence

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<220>
<223> Synthetic antibacterial peptide
<400>
26
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Arg Arg Arg Arg Arg Asn Trp Met Trp Cys

Sequence Listing

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<220>
<223> Synthetic antibacterial peptide
<400> 27

Gly	Ile	Gly	Lys	Phe	Leu	His	Ser	Ala	Lys	Lys	Phe	Gly	Lys	Ala	Phe
				5					10					15	
Val	Gly	Glu	Ile	Met	Asn	Ser	Gly	Gly	Lys	Lys	Trp	Lys	Met	Arg	Arg
		20					25					30			
Asn	Gln	Phe	Trp	Val	Lys	Val	Gln	Arg	Gly						
		35					40								

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<213> Artificial sequence

<220>
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<400> 28

Gly	Ile	Ile	Lys	Lys	Ile	Ile	Lys	Lys	Ile
			5					10	

<210> 29
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<223> Synthetic antibacterial peptide, containing three S-S bonds
<400> 29

Ala	Cys	Tyr	Cys	Arg	Ile	Pro	Ala	Cys	Ile	Ala	Gly	Glu	Arg	Arg	Tyr
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Gly	Thr	Cys	Ile	Tyr	Gln	Gly	Arg	Leu	Trp	Ala	Phe	Cys	Cys		
		20					25					30			

<210> 30
<211> 35
<212> PRT
<213> Antheraea pernyi

<220>
<223> Synthetic antibacterial peptide, c-terminus amidated
<400> 30

Lys	Trp	Lys	Val	Phe	Lys	Lys	Ile	Glu	Lys	Met	Gly	Arg	Asn	Ile	Arg
			5					10					15		
Asn	Gly	Ile	Val	Lys	Ala	Gly	Pro	Ala	Ile	Ala	Val	Leu	Gly	Glu	Ala
		20					25					30			
Lys	Ala	Leu													
		35													

<210> 31
<211> 24
<212> PRT

Sequence Listing

<213> Homo sapiens

<220>

<223> Synthetic antibacterial peptide

<400> 31

Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe His Glu
5 10 15
Lys His His Ser His Arg Gly Tyr
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<210> 32

<211> 13

<212> PRT

<213> Macropis fulvipes

<220>

<223> Synthetic antibacterial peptide, c-terminus amidated

<400> 32

Gly Phe Gly Met Ala Leu Lys Leu Leu Lys Lys Val Leu
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<223>Synthetic antibacterial peptide

<400>

Thr Lys Pro Arg
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<210> 34

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<213> Artificial sequence

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<223> Synthetic antibacterial peptide

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His His Pro His Gly
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<210> 35

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic antibacterial peptide

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His His Pro His Gly His His Pro His Gly
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<210> 36

<211> 15

<212> PRT

<213> Artificial sequence

Sequence Listing

<220>

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<400> 36

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<210> 37

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic antibacterial peptide

<400> 37

His His Pro His Gly His His Pro His Gly His His Pro His Gly His
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His Pro His Gly
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<210> 38

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic antibacterial peptide, N-terminus acetylated and C-terminus amidated

<400> 38

Ala Ala Ala Lys
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<210> 39

<211> 39

<212> PRT

<213> Sus scrofa

<220>

<223> Synthetic antibacterial peptide

<400> 39

Arg Arg Arg Pro Arg Pro Pro Tyr Leu Pro Arg Pro Arg Pro Pro Pro
5 10 15
Phe Phe Pro Pro Arg Leu Pro Pro Arg Ile Pro Pro Gly Phe Pro Pro
20 25 30
Arg Phe Pro Pro Arg Phe Pro
35

<210> 40

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic antibacterial peptide, N-terminus acetylated and C-terminus amidated

<400> 40

Ala Ala Ala Ala Ala Ala Lys
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Sequence Listing

<210>	41
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<213>	Artificial sequence

<220>
<223> Synthetic antibacterial peptide
<400> 41

Phe Leu Gly Ala Leu Phe Lys Ala Leu Ser Lys Leu Leu
5 10

<210>	42
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<213>	Oreochromis mossambicus

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<220>
<223> Synthetic antibacterial peptide, c-terminus amidated
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Gln Ser His Leu Ser Leu Cys Arg Trp Cys Cys Asn Cys Cys Arg Ser
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Asn Lys Gly Cys
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<210>	43
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<212>	PRT
<213>	Artificial sequence

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<220>
<223> Synthetic antibacterial peptide, N-terminus acetylated and C-terminus
amidated
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A1a A1a A1a A1a A1a A1a A1a A1a A1a Lys
5 10

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<210> 44
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<213> Calliphora vicina
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<220>
<223> Synthetic antibacterial peptide
<400> 44

His Gly val ser Gly His Gly Gln His Gly val His Gly
5 10

<210>	45
<211>	10
<212>	PRT
<213>	vigna sesquipedalis

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<223> synthetic antibacterial peptide
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Lys Thr Cys Glu Asn Leu Ala Asp Thr Tyr
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<210> 46
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 <213> Bacillus subtilis

<220>
 <223> Synthetic antibacterial peptide
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Leu Leu Asp Val Leu Leu Glu
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<210> 47
 <211> 10
 <212> PRT
 <213> Antennapedia

<220>
 <223> Synthetic antibacterial peptide
 <400> 47

Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu
 5 10

<210> 48
 <211> 12
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic antibacterial peptide
 <400> 48

Ile Tyr Leu Gly Gly Pro Phe Ser Pro Asn Val Leu
 5 10

<210> 49
 <211> 8
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic antibacterial peptide
 <400> 49

Phe Glu Gln Asn Thr Ala Gln Pro
 5

<210> 50
 <211> 5
 <212> PRT
 <213> Eisenia fetida

<220>
 <223> Synthetic antibacterial peptide
 <400> 50

Ala Met Val Gly Thr
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<210> 51
 <211> 12
 <212> PRT

Sequence Listing

<213> Shell mollusk

<220>

<223> Synthetic antibacterial peptide

<400> 51

Arg Asp Gly Asp Ser Cys Arg Gly Gly Gly Pro Val
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<210> 52

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<223> Synthetic antibacterial peptide

<400> 52

Ser Ser Leu Leu Glu Lys Gly Leu Asp Gly Ala Lys Lys Ala Val Gly
5 10 15
Gly Leu Gly Lys Leu Gly Lys Asp Ala Val Glu Asp Leu Glu Ser Val
20 25 30
Gly Lys Gly Ala Val His Asp Val Lys Asp Val Leu Asp Ser Val Leu
35 40 45

<210> 53

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<223> Synthetic antibacterial peptide

<400> 53

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Cys Cys Lys Thr
20