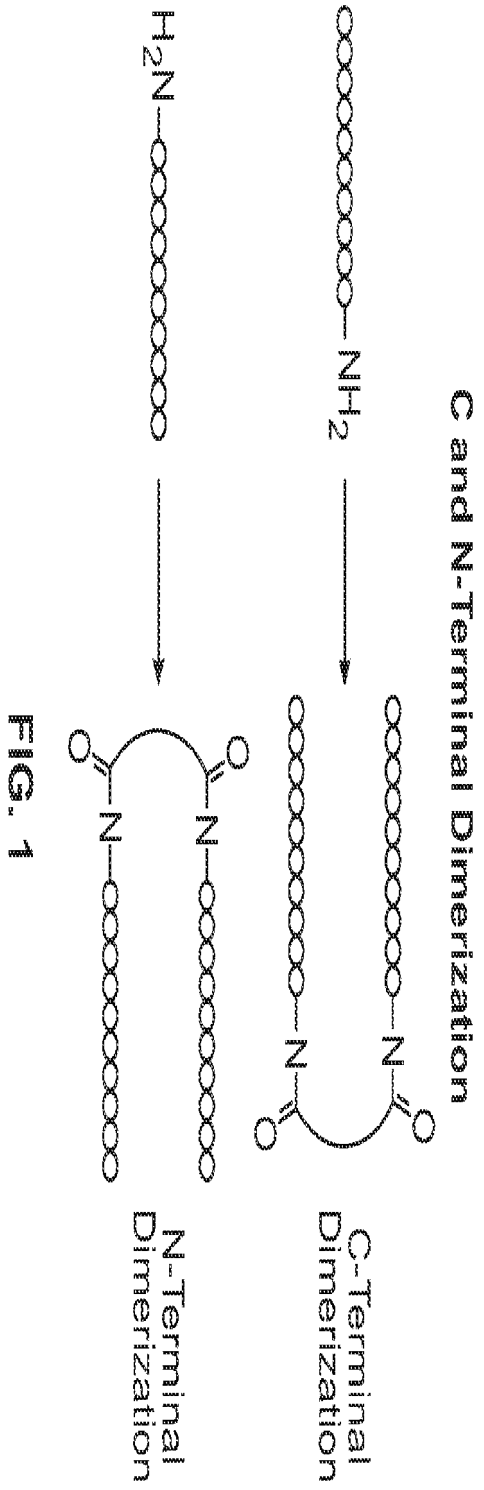

C and N-Terminal Dimerization
NH2
H2N
C-Terminal Dimerization
N-Terminal Dimerization

FIG. 1

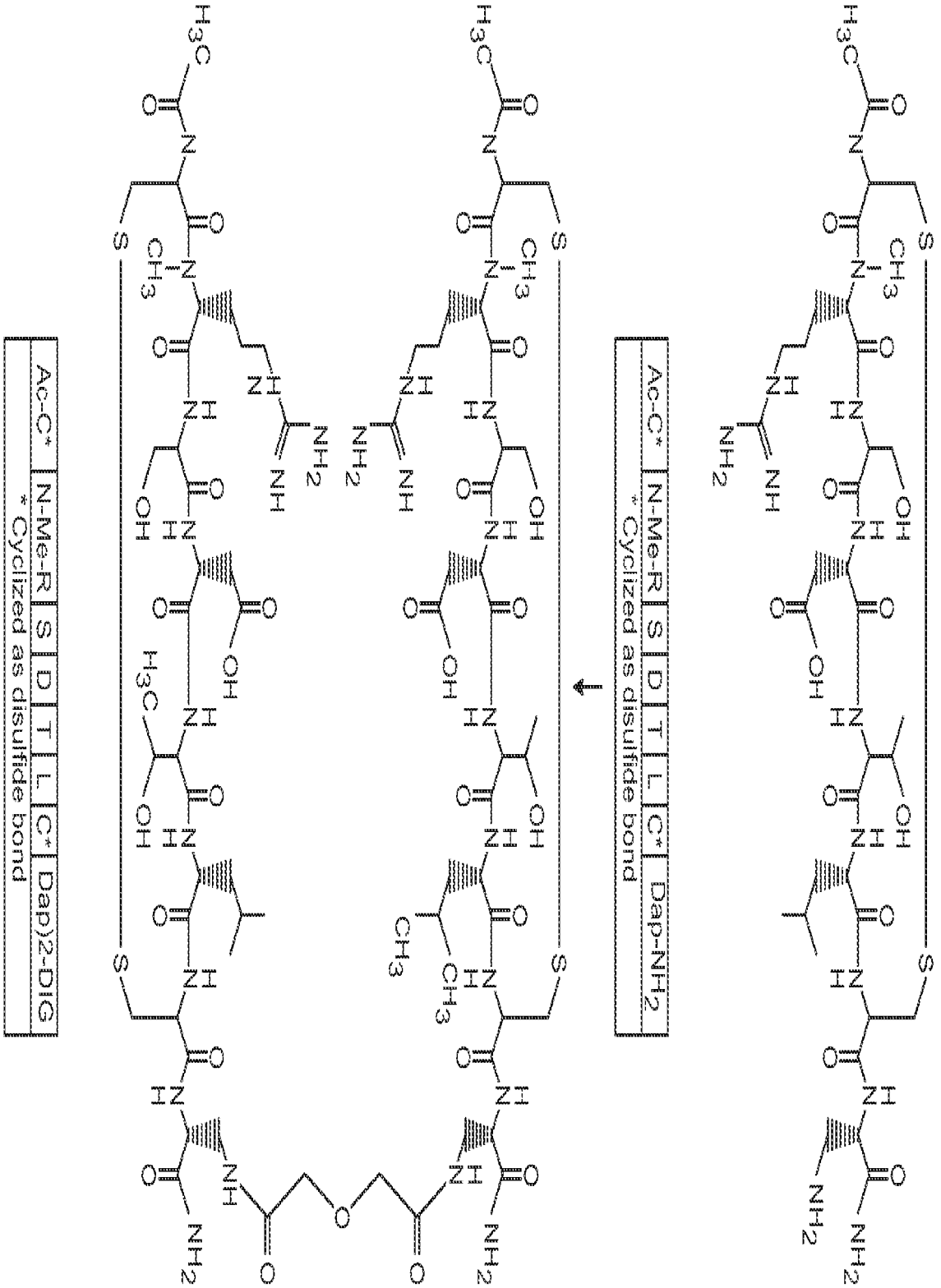

Ac-C* | N-Me-R | S | D | T | L | C* | Dap)2-DIG
* Cyclized as disulfide bond
Ac-C* | N-Me-R | S | D | T | L | C* | Dap-NH2
* Cyclized as disulfide bond

FIG. 2

SEQ ID	Sequence									SIF Stability (Half-Life, Min)
	4	5	6	7	8	9	10	11		
39	Ac-C	R	S	D	T	L	C-NH2			<1Min
46	Ac-C	N-Me-R	S	D	T	L	C-NH2			73
55	Ac-C	N-Me-R	S	D	T	L	Pen	k-NH2		>360
74	Ac-C	N-Me-R	S	D	T	L	Pen	E	k-NH2	>360
39	Ac-C	R	S	D	T	L	C-NH2			<1Min
93	Ac-Pen	N-Me-R	S	D	T	L	Pen	k-NH2		>360Min

FIG. 3

												Potency and Selectivity			
Sample	SEQ ID											a4b7 (nM)	a4b1(nM) (Efficacy%)	Selectivity (Fold)	Cell Adhesion Assay(a4b7)(nM)
Sample-1	51	Ac-C	N-Me-R	S	D	T	L	C	G	E	N-Me-K-NH2	74	1914(66)	25	959
Sample-2	51	(Ac-C	N-Me-R	S	D	T	L	C	G	E	N-Me-K)2-DIG	0.92	697(80)	757	78
Sample-3	43	H-C	N-Me-R	S	D	T	L	C	G	E-NH2		36	240(84)	66	1012
Sample-4	43	DIG(C	N-Me-R	S	D	T	L	C	G	E-NH2)2		3.9	1332(90)	341	398, 630
Sample-5	43	PEG4 (C	N-Me-R	S	D	T	L	C	G	E-NH2)2		1.2	1105(86)	920	64
Sample-6	48	Ac-C	N-Me-R	S	D	T	L	C	N-Me-K-NH2			107	3732(51)	34	1951
Sample-7	48	(Ac-C	N-Me-R	S	D	T	L	C	N-Me-K)2-DIG			3.6	1781(63)	494	204
Sample-8	47	Ac-C	N-Me-R	S	D	T	L	C	Dap-NH2			19	2656(50)	139	1129
Sample-9	47	(Ac-C	N-Me-R	S	D	T	L	C	Dap)2-DIG			4.3	1871(51)	435	152
Sample-10	47	Ac-C	N-Me-R	S	D	T	L	C	Dab-NH2			103	4547(66)	44	4547
Sample-11	47	(Ac-C	N-Me-R	S	D	T	L	C	Dab)2-DIG			2.8	1927(65)	688	271
Sample-12	48	Ac-C	N-Me-R	S	D	T	L	C	k-NH2			60	7471(79)	124	1370
Sample-13	48	(Ac-C	N-Me-R	S	D	T	L	C	k)2-DIG			3	1589(65)	529	56
Sample-14	50	H-C	N-Me-R	S	D	T	L	C-NH2				40	1066(68)	26	1031
Sample-15	50	DIG(C	N-Me-R	S	D	T	L	C-NH2)2				3	819(68)	273	157
Sample-16	50	PEG4(C	N-Me-R	S	D	T	L	C-NH2)2				1.4	1046(70)	747	56
Sample-17	50	PEG13(C	N-Me-R	S	D	T	L	C-NH2)2				3	1804(57)	601	47
Sample-18	94	Ac-C	N-Me-R	S	D	T	L	Pen	k-NH2			87	1619(87)	18	1350
Sample-19	94	(Ac-C	N-Me-R	S	D	T	L	Pen	k)2-DIG			8	700(91)	87	275

FIG. 4