Fig. 1

Polypeptide	Amino Acid Sequence	SEQ ID NO:
CBM06175	EVLEAWDEIDRLPNLTIEQWLAFINKLDD	1
CBM08044	EVLEAWNEIDRLPNLTIEQWLAFINKLDD	2
CBM05998	EVIEAWNEIDRLPNLTIEQWLAFINKLDD	3
CBM06009	EVLEAWDEIDRLPNLTLDQWLAFINKLDD	4
CBM06079	EVLDAWDEIDALPNLTLEQWLAFINKLDD	5
CBM06126	EVIDAWDEIDRLPNLTLDQWLAFINKLDD	6
CBM06140	ETLEAWDEIDRLPNLTIEQWLAFINKLDD	7
CBM06189	EVIDAWNEIDALPNLTLDQWLAFINKLDD	8
CBM06214	EVLDAWDEIDKLPNLTIDQWLAFINKLDD	9
CBM06215	EVLEAWDEIDHLPNLTLDQWLAFINKLDD	10
CBM06226	EVLEAWDEIDALPNLTIEQWLAFINKLDD	11
CBM06018	EVLDAWDEIDKLPNLTLEQWLAFINKLDD	12
CBM05477	ETITAWDEIDKLPNLTIEQWLAFIGKLED	13
CBM05363	ESMKAWDEIDRLPNLNINQWVAFIDSLYD	14
CBM05483	ESIEAWTEIDHLPNLTIEQWLAFINKLTD	15
CBM05538	EVLDAWHEIDTLPNLTVRQWLAFISKLED	16
CBM05692	EHIQANEEIDRLPNLTIKQWLAFINKLHD	17
CBM05994	EVLHAWAEIDALPNLTIEQWLAFINKLDD	18
CBM05995	EVLAAWDEIDSLPNLTLQQWLAFINKLDD	19
CBM05996	EVIDAWNEIDALPNLTLEQWLAFINKLDD	20
CBM05997	EVLDAWNEIDALPNLTIDQWLAFINKLSD	21
CBM05999	EVIEAWDEIDGLPNLTIEQWLAFINKLDD	22
CBM06000	EVLEAWDEIDHLPNLTLQQWLAFINKLDD	23

CBM06001	EVIEAWNEIDALPNLTIEQWLAFINKLDD	24
CBM06002	EVIAAWNEIDRLPNLTLTQWLAFINKLDD	25
CBM06003	EVIEAWDEIDALPNLTLQQWLAFINKLDD	26
CBM06004	EVIAAWDEIDKLPNLTIEQWLAFINKLDD	27
CBM06005	EVIAAWDEIDKLPNLTLQQWLAFINKLDD	28
CBM06006	ETIAAWDEIDKLPNLTIEQWLAFINKLDD	29
CBM06007	ETIEAWNEIDRLPNLTIEQWLAFINKLDD	30
CBM06008	EVLEAWREIDALPNLTIQQWLAFINKLDD	31
CBM06010	EVIEAWDEIDQLPNLTIEQWLAFINKLDD	32
CBM06011	EVLRAWDEIDHLPNLTLEQWLAFINKLDD	33
CBM06012	EVLEAWDEIDRLPNLTLNQWLAFINKLDD	34
CBM06013	EVLDAWNEIDHLPNLTIEQWLAFINKLDD	35
CBM06014	EVIDAWNEIDKLPNLTIEQWLAFINKLDD	36
CBM06015	ETLEAWDEIDQLPNLTLQQWLAFINKLDD	37
CBM06016	EVIEAWNEIDALPNLTLDQWLAFINKLDD	38
CBM06017	EVIDAWNEIDRLPNLTLQQWLAFINKLDD	39
CBM06019	EVIDAWNEIDQLPNLTLEQWLAFINKLDD	40
CBM06020	ETIAAWDEIDHLPNLTLEQWLAFINKLDD	41
CBM06024	EVLQAWDEIDHLPNLTIQQWLAFINKLSD	42
CBM06025	ETLHAWAEIDRLPNLTIEQWLAFINKLDD	43
CBM06026	EVLEAWNEIDHLPNLTLAQWLAFINKLDD	44
CBM06027	EVIEAWDEIDKLPNLTIAQWLAFINKLDD	45
CBM06028	EVLDAWDEIDHLPNLTLQQWLAFINKLDD	46
CBM06029	ETIEAWNEIDKLPNLTLTQWLAFINKLDD	47
CBM06030	EVLEAWNEIDLLPNLTIEQWLAFINKLDD	48
CBM06031	EVIEAWDEIDHLPNLTIDQWLAFINKLDD	49

CBM06032	EVISAWNEIDALPNLTLQQWLAFINKLDD	50
CBM06033	EVIAAWNEIDKLPNLTLEQWLAFINKLDD	51
CBM06034	ETIEAWNEIDSLPNLTLDQWLAFINKLDD	52
CBM06035	EVLDAWNEIDQLPNLTLQQWLAFINKLDD	53
CBM06037	EVLAAWNEIDHLPNLTIEQWLAFINKLDD	54
CBM06038	EVLEAWDEIDHLPNLTITQWLAFINKLDD	55
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CBM06040	EVIEAWNEIDHLPNLTIQQWLAFINKLDD	57
CBM06041	EVIQAWNEIDALPNLTISQWLAFINKLDD	58
CBM06043	EVIAAWDEIDSLPNLTIEQWLAFINKLDD	59
CBM06044	EHIEAWNEIDALPNLTIEQWLAFINKLQD	60
CBM06045	EVLEAWNEIDKLPNLTLDQWLAFINKLDD	61
CBM06047	EVIDAWNEIDHLPNLTIEQWLAFINKLAD	62
CBM06048	ETIDAWDEIDKLPNLTIEQWLAFINKLDD	63
CBM06049	EVIAAWDEIDLLPNLTLQQWLAFINKLAD	64
CBM06050	EVIHAWDEIDKLPNLTIEQWLAFINKLDD	65
CBM06051	EVIAAWNEIDHLPNLTLEQWLAFINKLDD	66
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CBM06053	EVLEAWNEIDALPNLTLEQWLAFINKLDD	68
CBM06054	EVIQAWDEIDHLPNLTISQWLAFINKLDD	69
CBM06055	EVLQAWDEIDSLPNLTIEQWLAFINKLDD	70
CBM06056	ETLEAWDEIDHLPNLTIAQWLAFINKLDD	71
CBM06057	ETIDAWNEIDRLPNLTISQWLAFINKLDD	72
CBM06058	EVLDAWHEIDHLPNLTIQQWLAFINKLDD	73
CBM06059	EQIRAWDEIDKLPNLTIEQWLAFINKLAD	74
CBM06060	ETLYAWNEIDKLPNLTIEQWLAFIEKLQD	75

CBM06061	EVIEAWNEIDALPNLTIDQWLAFINKLDD	76
CBM06062	EVLEAWNEIDHLPNLTIQQWLAFINKLDD	77
CBM06063	ETIEAWDEIDALPNLTIEQWLAFINKLDD	78
CBM06065	EVIEAWNEIDHLPNLTLQQWLAFINKLDD	79
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CBM06068	ETLDAWAEIDHLPNLTLDQWLAFINKLDD	81
CBM06069	EHIDAWNEIDALPNLTLSQWLAFINKLDD	82
CBM06070	EVLDAWNEIDKLPNLTIAQWLAFINKLDD	83
CBM06071	EVIEAWTEIDYLPNLTLQQWLAFINKLDD	84
CBM06072	ETIEAWNEIDHLPNLTIAQWLAFINKLDD	85
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CBM06077	EVVAAWNEIDALPNLTIEQWLAFINKLND	90
CBM06080	EVIEAWNEIDALPNLTLAQWLAFINKLDD	91
CBM06081	EVLQAWDEIDRLPNLTLDQWLAFINKLDD	92
CBM06082	EVIDAWDEIDHLPNLTIEQWLAFINKLSD	93
CBM06083	EVVEAWNEIDQLPNLTIEQWLAFINKLDD	94
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CBM06087	EVIQAWNEIDGLPNLTLSQWLAFINKLDD	98
CBM06088	ETIEAWDEIDALPNLTITQWLAFINKLDD	99
CBM06089	EVIDAWNEIDHLPNLTIQQWLAFINKLAD	100
CBM06090	ETIEAWNEIDALPNLTLDQWLAFINKLED	101

CBM06091	EHIHAWNEIDELPNLTIEQWLAFINKLAD	102
CBM06092	EVIDAWDEIDHLPNLTIDQWLAFINKLSD	103
CBM06093	EVIDANDEIDALPNLTIAQWLAFINKLHD	104
CBM06095	ETIEAWDEIDKLPNLTIEQWLAFINKLDD	105
CBM06097	EVLLAWDEIDHLPNLTLEQWLAFINKLDD	106
CBM06098	EHIDAWNEIDGLPNLTLEQWLAFINKLDD	107
CBM06099	EVIEAWSEIDALPNLTIDQWLAFINKLAD	108
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CBM06104	EVIEAWDEIDKLPNLTLAQWLAFINKLDD	112
CBM06105	EVLYAWAEIDHLPNLTIEQWLAFINKLDD	113
CBM06107	EQIDAWNEIDRLPNLTIQQWLAFINKLDD	114
CBM06108	EVLAAWDEIDRLPNLTIEQWLAFINKLDD	115
CBM06109	EVIEAWDEIDHLPNLTLHQWLAFINKLDD	116
CBM06110	EVIEAWNEIDKLPNLTLQQWLAFINKLDD	117
CBM06111	EVIDANDEIDALPNLTIEQWLAFINKLHD	118
CBM06112	EVIAAWDEIDALPNLTIEQWLAFINKLDD	119
CBM06113	EVIEAWTEIDQLPNLTLDQWLAFINKLDD	120
CBM06114	EVINAWNEIDALPNLTLQQWLAFINKLDD	121
CBM06115	EHIEAWDEIDHLPNLTIDQWLAFINKLAD	122
CBM06116	EHLEAWREIDALPNLTIEQWLAFINKLDD	123
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CBM06118	EVIAAWDEIDHLPNLTIQQWLAFINKLDD	125
CBM06119	EVIQAWNEIDALPNLTLEQWLAFINKLDD	126
CBM06121	EVIDAWNEIDHLPNLTIAQWLAFINKLDD	127

CBM06122	EQLDAWDEIDHLPNLTIDQWLAFINKLSD	128
CBM06123	EVLNAWDEIDKLPNLTIEQWLAFINKLDD	129
CBM06124	EVLEAWNEIDHLPNLTIDQWLAFINKLDD	130
CBM06125	EVLLAWDEIDRLPNLTIDQWLAFINKLAD	131
CBM06127	EVIAAWNEIDQLPNLTLDQWLAFINKLDD	132
CBM06128	ETLLAWDEIDALPNLTIEQWLAFINKLDD	133
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CBM06131	EVLHAWNEIDHLPNLTLNQWLAFINKLQD	135
CBM06132	EVIQAWNEIDALPNLTIAQWLAFINKLDD	136
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CBM06138	EVIEAWNEIDQLPNLTIQQWLAFINKLDD	142
CBM06139	EVIEAWTEIDHLPNLTIEQWLAFINKLDD	143
CBM06141	EVIQAWNEIDHLPNLTLQQWLAFINKLED	144
CBM06142	EVIQANNEIDQLPNLTIEQWLAFINKLHD	145
CBM06143	EVLHAWSEIDKLPNLTIEQWLAFINKLDD	146
CBM06144	ETIQAWDEIDKLPNLTLDQWLAFINKLSD	147
CBM06145	ETLRAWDEIDKLPNLTIQQWLAFINKLAD	148
CBM06146	EVIDAWNEIDHLPNLTIEQWLAFINKLED	149
CBM06147	EVIDAWNEIDHLPNLTLQQWLAFINKLAD	150
CBM06148	ETIDAWNEIDALPNLTLDQWLAFINKLDD	151
CBM06149	EVIEAWNEIDQLPNLTIEQWLAFINKLDD	152
CBM06150	EVIRAWDEIDQLPNLTLSQWLAFINKLDD	153

CBM06151	EVIEAWNEIDRLPNLTIHQWLAFINKLDD	154
CBM06152	ETIEAWNEIDQLPNLTIEQWLAFINKLDD	155
CBM06153	EVLTAWAEIDALPNLTLSQWLAFINKLDD	156
CBM06154	EVIEAWDEIDKLPNLTVDQWLAFINKLDD	157
CBM06155	EVIDAWNEIDHLPNLTLTQWLAFINKLDD	158
CBM06156	EVIEAWNEIDQLPNLTLDQWLAFINKLDD	159
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CBM06158	EVIDAWNEIDHLPNLTIEQWLAFINKLDD	161
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CBM06160	EVIDAWDEIDRLPNLTLKQWLAFINKLDD	163
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CBM06162	EVIKAWDEIDHLPNLTLNQWLAFINKLDD	165
CBM06163	EVIEAWNEIDHLPNLTLAQWLAFINKLDD	166
CBM06164	EVIQAWNEIDHLPNLTIDQWLAFITKLED	167
CBM06165	EVIEAWNEIDRLPNLTIKQWLAFINKLDD	168
CBM06167	EVIEAWNEIDSLPNLTLQQWLAFINKLDD	169
CBM06168	ETIDAWNEIDKLPNLTIEQWLAFINKLDD	170
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CBM06180	EQIEAWNEIDRLPNLTLEQWLAFINKLDD	180
CBM06181	EVVDAWNEIDALPNLTLQQWLAFINKLDD	181
CBM06182	EVIEAWNEIDKLPNLTIEQWLAFINKLDD	182
CBM06183	EVIEANDEIDRLPNLTIEQWLAFINKLHD	183
CBM06184	ETLQAWDEIDKLPNLTIEQWLAFINKLDD	184
CBM06185	EVIEAWDEIDHLPNLTIDQWLAFINKLAD	185
CBM06186	ETIDAWNEIDHLPNLTLQQWLAFINKLAD	186
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CBM06188	EVIEAWNEIDKLPNLTLAQWLAFINKLDD	188
CBM06190	EVLQAWDEIDKLPNLTIQQWLAFINKLDD	189
CBM06191	EVIAAWNEIDGLPNLTLQQWLAFINKLDD	190
CBM06192	ETLNAWNEIDALPNLTLQQWLAFINKLDD	191
CBM06193	EVLSAWNEIDQLPNLTLEQWLAFINKLDD	192
CBM06194	ETLEAWDEIDHLPNLTLHQWLAFINKLDD	193
CBM06195	EQIEAWNEIDHLPNLTLQQWLAFINKLAD	194
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CBM06197	EVLEAWNEIDELPNLTIEQWLAFINKLDD	196
CBM06198	EVIDAWNEIDQLPNLTLQQWLAFINKLDD	197
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CBM06206	EVIRAWDEIDALPNLTIEQWLAFINKLDD	203
CBM06207	EVIDAWDEIDALPNLTIDQWLAFINKLAD	204
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CBM06209	EVITAWNEIDHLPNLTLSQWLAFINKLDD	206
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CBM06211	EQLKAWDEIDKLPNLTIEQWLAFIEKLQD	208
CBM06212	EHIDAWTEIDHLPNLTIEQWLAFINKLDD	209
CBM06213	EQLRAWDEIDKLPNLTIEQWLAFINKLQD	210
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CBM06217	EVIQAWNEIDKLPNLTIEQWLAFINKLDD	212
CBM06218	EHVEAWNEIDQLPNLTIEQWLAFINKLAD	213
CBM06219	EVIDAWDEIDALPNLTIDQWLAFINKLSD	214
CBM06220	EVIEAWNEIDHLPNLTIEQWLAFINKLDD	215
CBM06221	EVLQAWDEIDKLPNLTIEQWLAFINKLSD	216
CBM06222	EVIKAWNEIDSLPNLTIEQWLAFINKLDD	217
CBM06223	EVLEAWHEIDLLPNLTIQQWLAFINKLDD	218
CBM06224	EVLEAWTEIDRLPNLTLDQWLAFINKLDD	219
CBM06225	EQLYAWNEIDHLPNLTIEQWLAFIEKLQD	220
CBM06227	EVLNAWDEIDKLPNLTIKQWLAFINKLDD	221
CBM06228	EVIRAWDEIDKLPNLTVEQWLAFINKLDD	222
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CBM06239	EVIEAWNEIDKLPNLTIDQWLAFINKLDD	232
CBM06240	ETIDAWNEIDKLPNLTLEQWLAFINKLDD	233
CBM06241	ETLDAWDEIDALPNLTIDQWLAFINKLED	234
CBM06242	EVLSAWNEIDHLPNLTIQQWLAFINKLDD	235
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CBM06248	ETIQAWDEIDRLPNLTLQQWLAFINKLDD	240
CBM06249	ETIQAWDEIDKLPNLTIEQWLAFINKLDD	241
CBM06250	ETLDAWAEIDHLPNLTIEQWLAFINKLDD	242
CBM06251	EVIEAWDEIDKLPNLTLNQWLAFINKLDD	243
CBM06252	EVLDAWNEIDQLPNLTIEQWLAFINKLDD	244
CBM06253	EVLHAWNEIDHLPNLTIEQWLAFIEKLED	245
CBM06254	EVIEAWQEIDKLPNLTIDQWLAFINKLDD	246
CBM06257	EVVDAWNEIDQLPNLTIEQWLAFINKLDD	247
CBM06258	EQIEAWNEIDALPNLTIEQWLAFINKLAD	248
P06175	KEVLEAWDEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	249
P08044	KEVLEAWNEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	250
P05998	KEVIEAWNEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	251
P06009	KEVLEAWDEIDRLPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	252
P06079	KEVLDAWDEIDALPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	253
P06126	KEVIDAWDEIDRLPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	254
P06140	KETLEAWDEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	255
P06189	KEVIDAWNEIDALPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	256
P06214	KEVLDAWDEIDKLPNLTIDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	257

P06215	KEVLEAWDEIDHLPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	258
P06226	KEVLEAWDEIDALPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	259
P06018	KEVLDAWDEIDKLPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	260
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P05363	KESMKAWDEIDRLPNLNINQWVAFIDSLYDDPSQSANLLAEAKKLNDAQ	262
P05483	KESIEAWTEIDHLPNLTIEQWLAFINKLTDDPSQSSELLAEAKKLNDAQ	263
P05538	KEVLDAWHEIDTLPNLTVRQWLAFISKLEDDPSQSSELLAEAKKLNDAQ	264
P05692	KEHIQANEEIDRLPNLTIKQWLAFINKLHDDPSQSSELLAEAKKLNDAQ	265
P05994	KEVLHAWAEIDALPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	266
P05995	KEVLAAWDEIDSLPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	267
P05996	KEVIDAWNEIDALPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	268
P05997	KEVLDAWNEIDALPNLTIDQWLAFINKLSDDPSQSSELLSEAKKLNDSQ	269
P05999	KEVIEAWDEIDGLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	270
P06000	KEVLEAWDEIDHLPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	271
P06001	KEVIEAWNEIDALPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	272
P06002	KEVIAAWNEIDRLPNLTLTQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	273
P06003	KEVIEAWDEIDALPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	274
P06004	KEVIAAWDEIDKLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	275
P06005	KEVIAAWDEIDKLPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	276
P06006	KETIAAWDEIDKLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	277
P06007	KETIEAWNEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	278
P06008	KEVLEAWREIDALPNLTIQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	279
P06010	KEVIEAWDEIDQLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	280
P06011	KEVLRAWDEIDHLPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	281
P06012	KEVLEAWDEIDRLPNLTLNQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	282
P06013	KEVLDAWNEIDHLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	283

P06014	KEVIDAWNEIDKLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	284
P06015	KETLEAWDEIDQLPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	285
P06016	KEVIEAWNEIDALPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	286
P06017	KEVIDAWNEIDRLPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	287
P06019	KEVIDAWNEIDQLPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	288
P06020	KETIAAWDEIDHLPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	289
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P06025	KETLHAWAEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	291
P06026	KEVLEAWNEIDHLPNLTLAQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	292
P06027	KEVIEAWDEIDKLPNLTIAQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	293
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P06029	KETIEAWNEIDKLPNLTLTQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	295
P06030	KEVLEAWNEIDLLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	296
P06031	KEVIEAWDEIDHLPNLTIDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	297
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P06033	KEVIAAWNEIDKLPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	299
P06034	KETIEAWNEIDSLPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	300
P06035	KEVLDAWNEIDQLPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	301
P06037	KEVLAAWNEIDHLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	302
P06038	KEVLEAWDEIDHLPNLTITQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	303
P06039	KETIDAWNEIDHLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	304
P06040	KEVIEAWNEIDHLPNLTIQQWLAFINKLDDDPSQSSELLSEAKKLNDSQ	305
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Z06246	VDAKYAKEVIQAWNEIDQLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	734
Z06247	VDAKYAKEVIEAWNEIDYLPNLTIAQWIAFINKLDDDPSQSSELLSEAKKLNDSQAPK	735
Z06248	VDAKYAKETIQAWDEIDRLPNLTLQQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	736
Z06249	VDAKYAKETIQAWDEIDKLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	737
Z06250	VDAKYAKETLDAWAEIDHLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	738
Z06251	VDAKYAKEVIEAWDEIDKLPNLTLNQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	739
Z06252	VDAKYAKEVLDAWNEIDQLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	740
Z06253	VDAKYAKEVLHAWNEIDHLPNLTIEQWLAFIEKLEDDPSQSSELLSEAKKLNDSQAPK	741
Z06254	VDAKYAKEVIEAWQEIDKLPNLTIDQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	742
Z06257	VDAKYAKEVVDAWNEIDQLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPK	743
Z06258	VDAKYAKEQIEAWNEIDALPNLTIEQWLAFINKLADDPSQSSELLSEAKKLNDSQAPK	744
Z05477a	VDAKYAKETITAWDEIDKLPNLTIEQWLAFIGKLEDDPSQSSELLAEAKKLNDAQAPKVD	745
Z05998a	AEAKYAKEVIEAWNEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	746
Z08044a	AEAKYAKEVLEAWNEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	747
Z06009a	AEAKYAKEVLEAWDEIDRLPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	748
Z06018a	AEAKYAKEVLDAWDEIDKLPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	749
Z06079a	AEAKYAKEVLDAWDEIDALPNLTLEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	750
Z06126a	AEAKYAKEVIDAWDEIDRLPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	751

Z06140a	AEAKYAKETLEAWDEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	752
Z06175a	AEAKYAKEVLEAWDEIDRLPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	753
Z06189a	AEAKYAKEVIDAWNEIDALPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	754
Z06214a	AEAKYAKEVLDAWDEIDKLPNLTIDQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	755
Z06215a	AEAKYAKEVLEAWDEIDHLPNLTLDQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	756
Z06226a	AEAKYAKEVLEAWDEIDALPNLTIEQWLAFINKLDDDPSQSSELLSEAKKLNDSQAPKVD	757
Z00000	VDNKFNKEQQNAFYEILHLPNLNEEQRNAFIQSLKDDPSQSANLLAEAKKLNDAQAPK	758
ABD094	LAEAKEAANAELDSYGVSDFYKRLIDKAKTVEGVEALKDAILAALP	759
Human C5	MGLLGILCFLIFLGKTWGQEQTYVISAPKIFRVGASENIVIQVYGYTEAFDATISIKSYPDKKFSYSSGHVHLSSENKFQ NSAILTIQPKQLPGGQNPVSYVYLEVVSKHFSKSKRMPITYDNGFLFIHTDKPVYTPDQSVKVRVYSLNDDLKPAKRETV LTFIDPEGSEVDMVEEIDHIGIISFPDFKIPSNPRYGMWTIKAKYKEDFSTTGTAYFEVKEYVLPHFSVSIEPEYNFIGY KNFKNFEITIKARYFYNKVVTEADVYITFGIREDLKDDQKEMMQTAMQNTMLINGIAQVTFDSETAVKELSYYSLEDLNN KYLYIAVTVIESTGGFSEEAEIPGIKYVLSPYKLNLVATPLFLKPGIPYPIKVQVKDSLDQLVGGVPVTLNAQTIDVNQE TSDLDPSKSVTRVDDGVASFVLNLPSGVTVLEFNVKTDAPDLPEENQAREGYRAIAYSSLSQSYLYIDWTDNHKALLVGE HLNIIVTPKSPYIDKITHYNYLILSKGKIIHFGTREKFSDASYQSINIPVTQNMVPSSRLLVYYIVTGEQTAELVSDSVW LNIEEKCGNQLQVHLSPDADAYSPGQTVSLNMATGMDSWVALAAVDSAVYGVQRGAKKPLERVFQFLEKSDLGCGAGGGL NNANVFHLAGLTFLTNANADDSQENDEPCKEILRPRRTLQKKIEEIAAKYKHSVVKKCCYDGACVNNDETCEQRAARISL GPRCIKAFTECCVVASQLRANISHKDMQLGRLHMKTLLPVSKPEIRSYFPESWLWEVHLVPRRKQLQFALPDSLTTWEIQ GVGISNTGICVADTVKAKVFKDVFLEMNIPYSVVRGEQIQLKGTVYNYRTSGMQFCVKMSAVEGICTSESPVIDHQGTKS SKCVRQKVEGSSSHLVTFTVLPLEIGLHNINFSLETWFGKEILVKTLRVVPEGVKRESYSGVTLDPRGIYGTISRRKEFP YRIPLDLVPKTEIKRILSVKGLLVGEILSAVLSQEGINILTHLPKGSAEAELMSVVPVFYVFHYLETGNHWNIFHSDPLI EKQKLKKKLKEGMLSIMSYRNADYSYSVWKGGSASTWLTAFALRVLGQVNKYVEQNQNSICNSLLWLVENYQLDNGSFKE NSQYQPIKLQGTLPVEARENSLYLTAFTVIGIRKAFDICPLVKIDTALIKADNFLLENTLPAQSTFTLAISAYALSLGDK THPQFRSIVSALKREALVKGNPPIYRFWKDNLQHKDSSVPNTGTARMVETTAYALLTSLNLKDINYVNPVIKWLSEEQRY GGGFYSTQDTINAIEGLTEYSLLVKQLRLSMDIDVSYKHKGALHNYKMTDKNFLGRPVEVLLNDDLIVSTGFGSGLATVH VTTVVHKTSTSEEVCSFYLKIDTQDIEASHYRGYGNSDYKRIVACASYKPSREESSSGSSHAVMDISLPTGISANEEDLK ALVEGVDQLFTDYQIKDGHVILQLNSIPSSDFLCVRFRIFELFEVGFLSPATFTVYEYHRPDKQCTMFYSTSNIKIQKVC EGAACKCVEADCGQMQEELDLTISAETRKQTACKPEIAYAYKVSITSITVENVFVKYKATLLDIYKTGEAVAEKDSEITF IKKVTCTNAELVKGRQYLIMGKEALQIKYNFSFRYIYPLDSLTWIEYWPRDTTCSSCQAFLANLDEFAEDIFLNGC	760

OmCI - His6	MDSESDCTGSEPVDAFQAFSEGKEAYVLVRSTDPKARDCLKGEPAGEKQDNTLPVMMTFKNGTDWASTDWTFTLDGAKVT ATLGNLTQNREVVYDSQSHHCHVDKVEKEVPDYEMMMLDAGGLEVEVECCRQKLEELASGRNQMYPHLKDCGGGGSENLY FQGSHHHHHH	761
Cynomolgus C5	MGLLGILCFLIFLGKTWGQEQTYVISAPKIFRVGASENIVIQVYGYTEAFDATISIKSYPDKXFSYSSGHVHLSSENKFQ NSAVLTIQPKQLPGGQNQVSYVYLEVVSKHFSKSKKIPITYDNGFLFIHTDKPVYTPDQSVKVRVYSLNDDLKPAKRETV LTFIDPEGSEIDMVEEIDHIGIISFPDFKIPSNPRYGMWTIQAKYKEDFSTTGTAFFEVKEYVLPHFSVSVEPESNFIGY KNFKNFEITIKARIFYNKVVTEADVYITFGIREDLKDDQKEMMQTAMQNTMLINGIAEVTFDSETAVKELSYYSLEDLNN KYLYIAVTVIESTGGFSEEAEIPGIKYVLSPYKLNLVATPLFLKPGIPYSIKVQVKDALDQLVGGVPVTLNAQTIDVNQE TSDLEPRKSVTRVDDGVASFVVNLPSGVTVLEFNVKTDAPDLPDENQAREGYRAIAYSSLSQSYLYIDWTDNHKALLVGE YLNIIVTPKSPYIDKITHYNYLILSKGKIIHFGTREKLSDASYQSINIPVTQNMVPSSRLLVYYIVTGEQTAELVSDSVW LNIEEKCGNQLQVHLSPDADTYSPGQTVSLNMVTGMDSWVALTAVDSAVYGVQRRAKKPLERVFQFLEKSDLGCGAGGGL NNANVFHLAGLTFLTNANADDSQENDEPCKEIIRPRRMLQEKIEEIAAKYKHLVVKKCCYDGVRINHDETCEQRAARISV GPRCVKAFTECCVVASQLRANNSHKDLQLGRLHMKTLLPVSKPEIRSYFPESWLWEVHLVPRRKQLQFALPDSVTTWEIQ GVGISNSGICVADTIKAKVFKDVFLEMNIPYSVVRGEQVQLKGTVYNYRTSGMQFCVKMSAVEGICTSESPVIDHQGTKS SKCVRQKVEGSSNHLVTFTVLPLEIGLQNINFSLETSFGKEILVKSLRVVPEGVKRESYSGITLDPRGIYGTISRRKEFP YRIPLDLVPKTEIKRILSVKGLLVGEILSAVLSREGINILTHLPKGSAEAELMSVVPVFVYVFHYLETGNHWNIFHSDPLI EKRNLEKKLKEGMVSIMSYRNADYSYSVWKGGSASTWLTAFALRVLGQVHKYVEQNQNSICNSLLWLVENYQLDNGSFKE NSQYQPIKLQGTLPVEARENSLYLTAFTVIGIRKAFDICPLVKINTALIKADTFLLENTLPAQSTFTLAISAYALSLGDK THPQFRSIVSALKREALVKGNPPIYRFWKDSLQHKDSSVPNTGTARMVETTAYALLTSLNLKDINYVNPIIKWLSEEQRY GGGFYSTQDTINAIEGLTEYSLLVKQLRLNMDIDVAYKHKGPLHNYKMTDKNFLGRPVEVLLNDDXVVSTGFGSGLATVH VTTVVHKTSTSEEVCSFYLKIDTQDVEASHYRGYGNSDYKRIVACASYKPSKEESSSGSSHAVMDISLPTGINANEEDLK ALVEGVDQLFTDYQIKDGHVILQLNSIPSSDFLCVRFRIFELFEVGFLSPATFTVYEYHRPDKQCTMFYSTSNIKIQKVC EGATCKCIEADCGQMQKELDLTISAETRKQTACNPEIAYAYKVIITSITTENVFVKYKATLLDIYKTGEAVAEKDSEITF IKKVTCTNAELVKGRQYLIMGKEALQIKYNFTFRYIYPLDSLTWIEYWPRDTTCSSCQAFLANLDEFAEDIFLNGC	762

Fig. 2

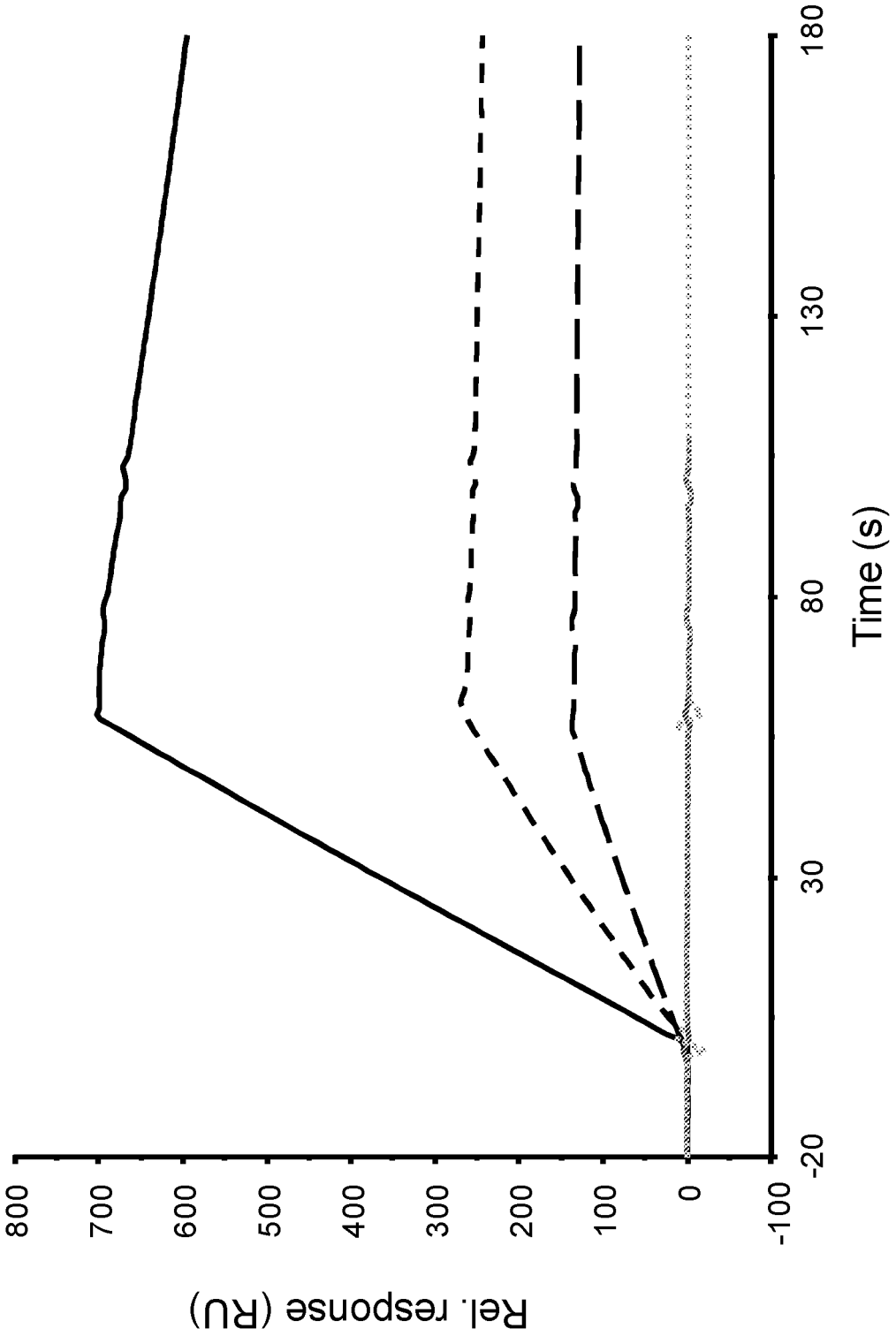

Rel. response (RU)
800
700
600
500
400
300
200
100
0
-100
-20
30
80
130
180
Time (s)

Fig. 3

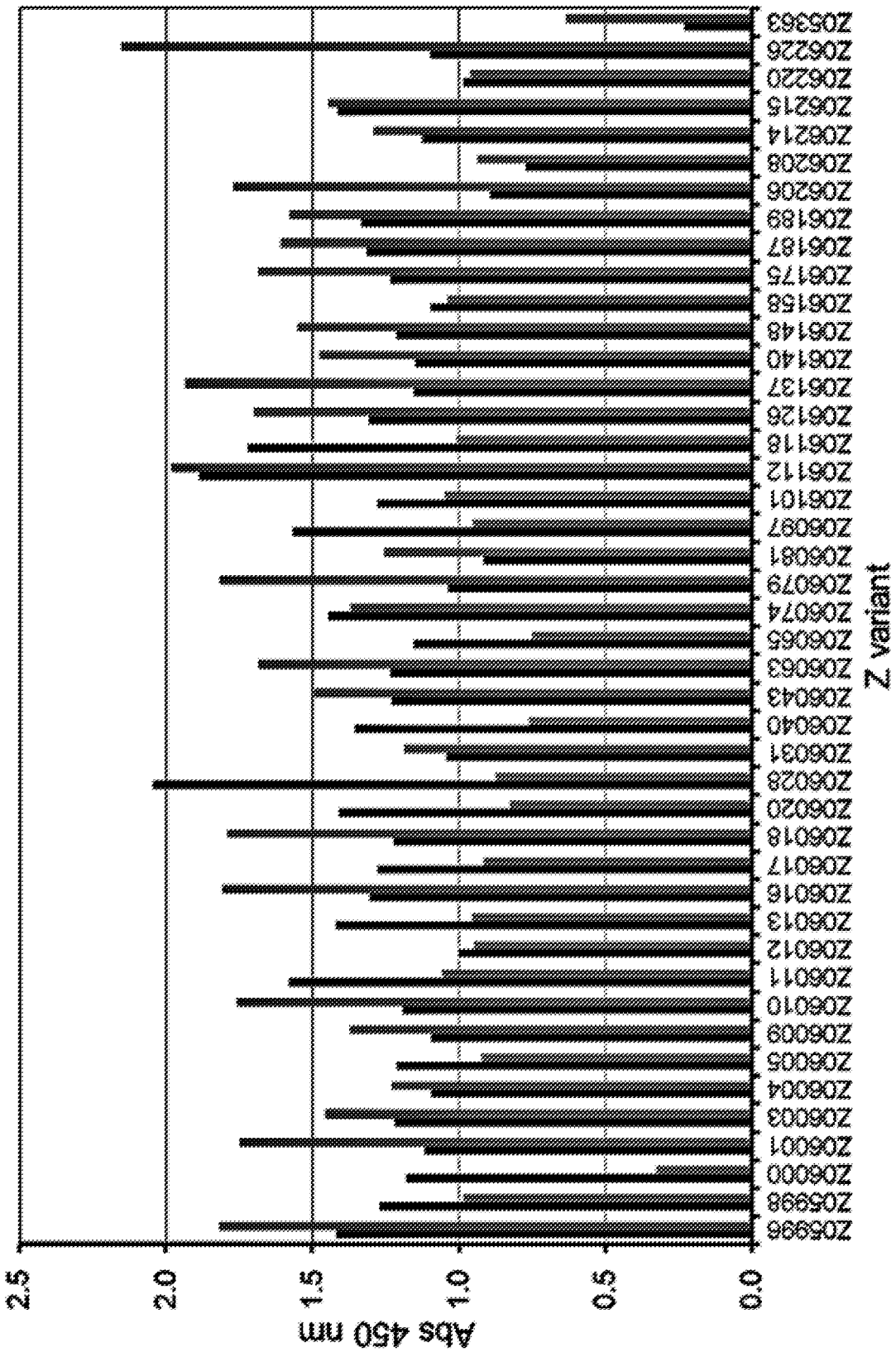

Abs 450 nm
2.5
2.0
1.5
1.0
0.5
0.0
Z variant
Z05363
Z06226
Z06220
Z06215
Z06214
Z06208
Z06206
Z06189
Z06187
Z06175
Z06158
Z06148
Z06140
Z06137
Z06126
Z06118
Z06112
Z06101
Z06097
Z06081
Z06079
Z06074
Z06065
Z06063
Z06043
Z06040
Z06031
Z06028
Z06020
Z06018
Z06017
Z06016
Z06013
Z06012
Z06011
Z06010
Z06009
Z06005
Z06004
Z06003
Z06001
Z06000
Z05998
Z05996

Fig. 4

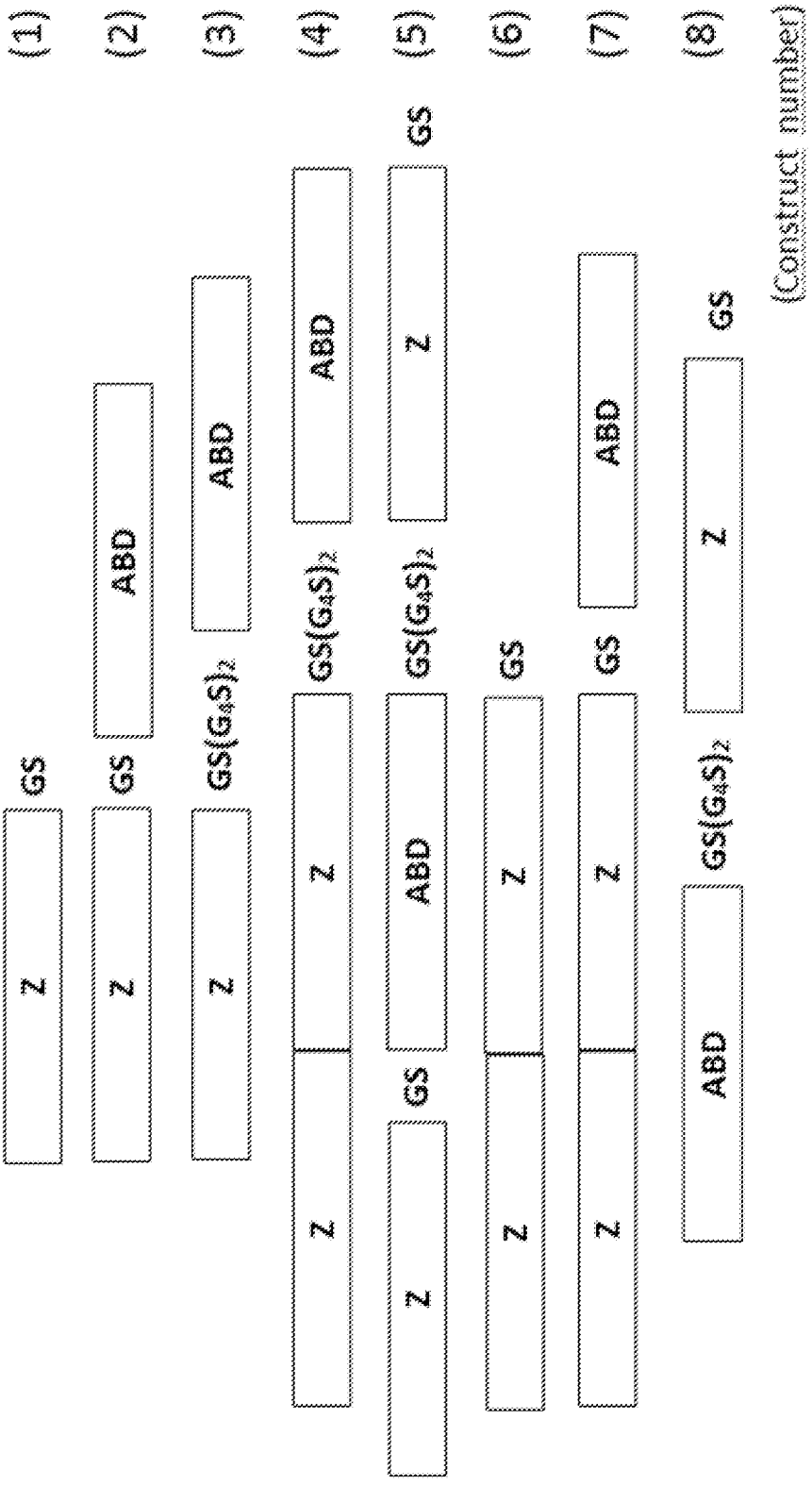


Fig. 5

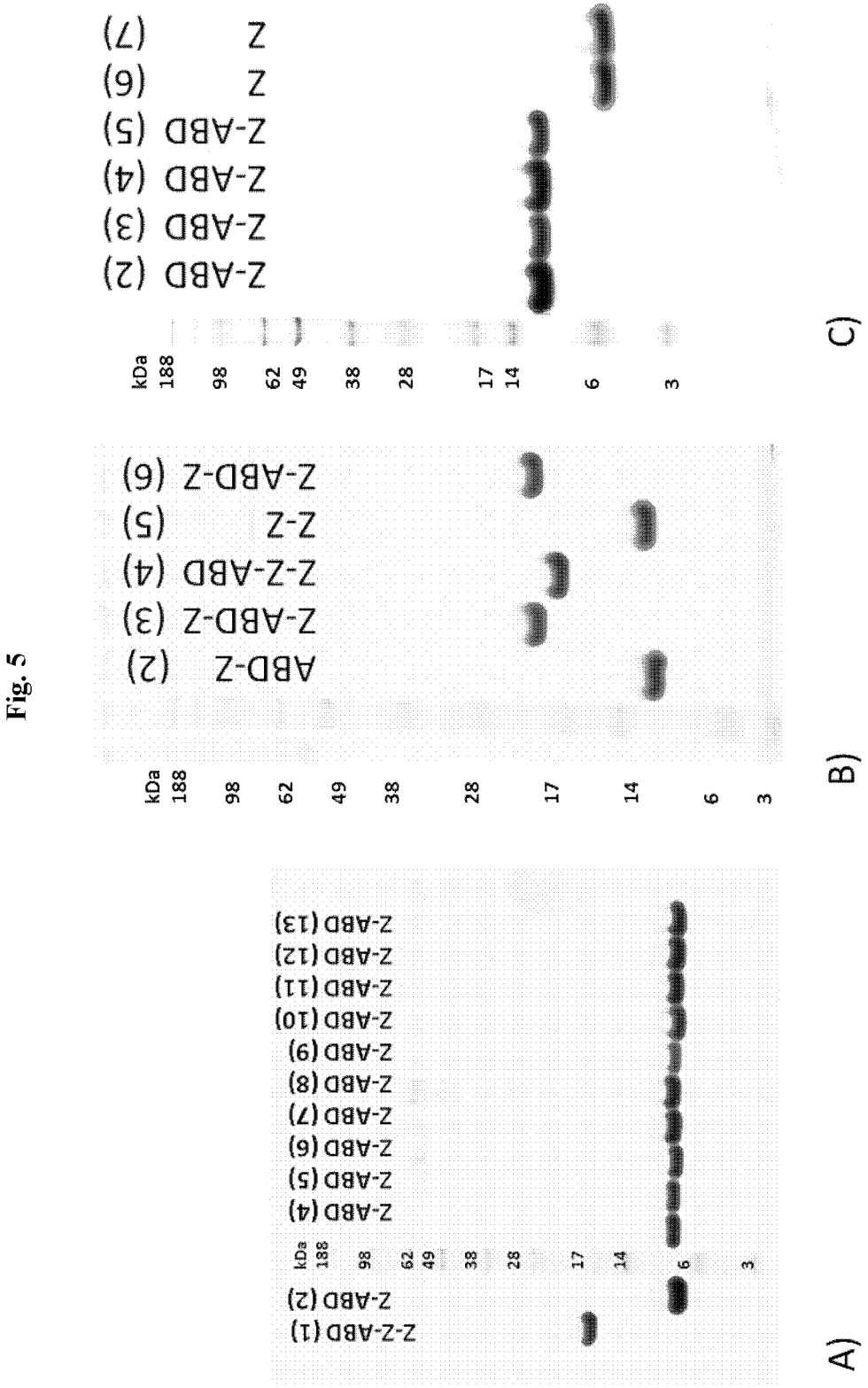

A)
Z-Z-ABD (1)
Z-ABD (2)
kDa
188
98
62
49
38
28
17
14
6
3
Z-ABD (4)
Z-ABD (5)
Z-ABD (6)
Z-ABD (7)
Z-ABD (8)
Z-ABD (9)
Z-ABD (10)
Z-ABD (11)
Z-ABD (12)
Z-ABD (13)
B)
ABD-Z (2)
Z-ABD-Z (3)
Z-Z-ABD (4)
Z-Z (5)
Z-ABD-Z (6)
kDa
188
98
62
49
38
28
17
14
6
3
C)
Z-ABD (2)
Z-ABD (3)
Z-ABD (4)
Z-ABD (5)
Z (6)
Z (7)
kDa
188
98
62
49
38
28
17
14
6
3

Fig. 6A

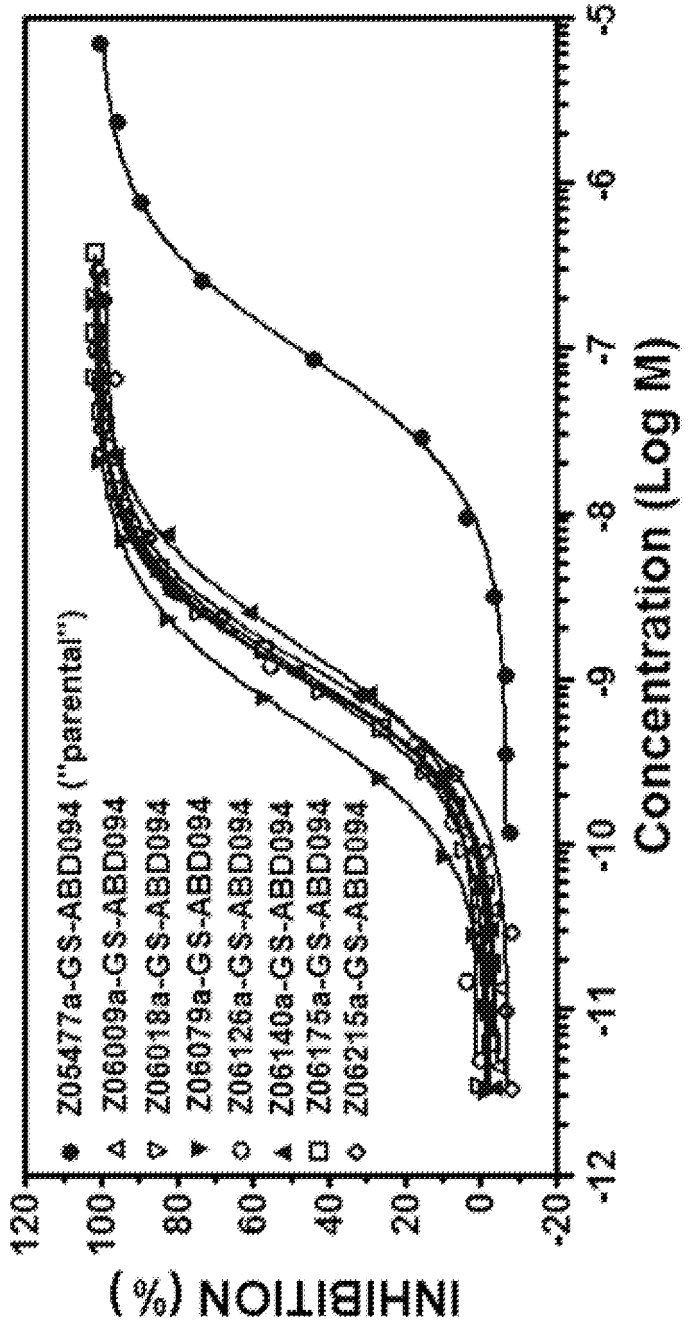

INHIBITION (%)
120
100
80
60
40
20
0
-20
-12
-11
-10
-9
-8
-7
-6
-5
Concentration (Log M)
Z05477a-GS-ABD094 ("parental")
Z06009a-GS-ABD094
Z06018a-GS-ABD094
Z06079a-GS-ABD094
Z06126a-GS-ABD094
Z06140a-GS-ABD094
Z06175a-GS-ABD094
Z06215a-GS-ABD094

Fig. 6B

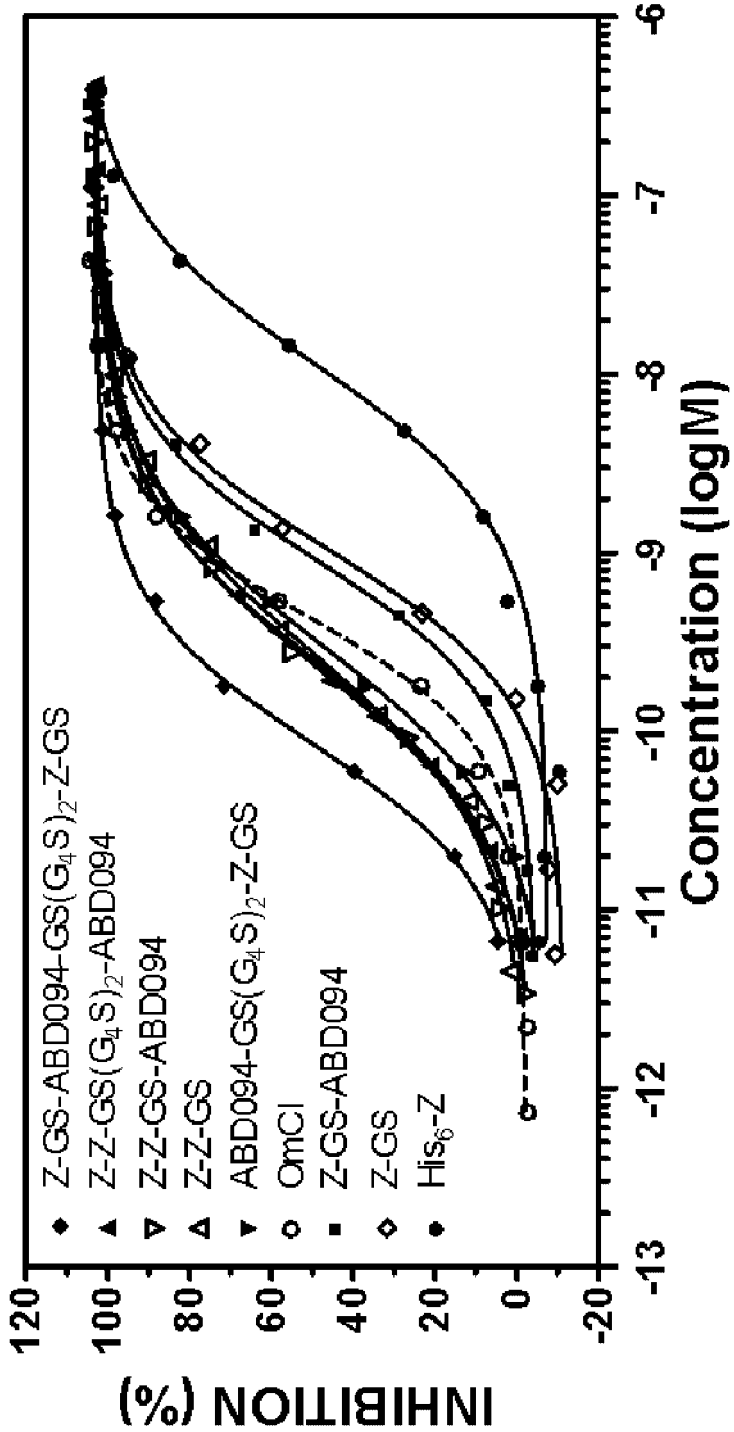

INHIBITION (%)
120
100
80
60
40
20
0
-20
-13
-12
-11
-10
-9
-8
-7
-6
Concentration (logM)
Z-GS-ABD094-GS(G4S)2-Z-GS
Z-Z-GS(G4S)2-ABD094
Z-Z-GS-ABD094
Z-Z-GS
ABD094-GS(G4S)2-Z-GS
OmCI
Z-GS-ABD094
Z-GS
His6-Z

Fig. 7A

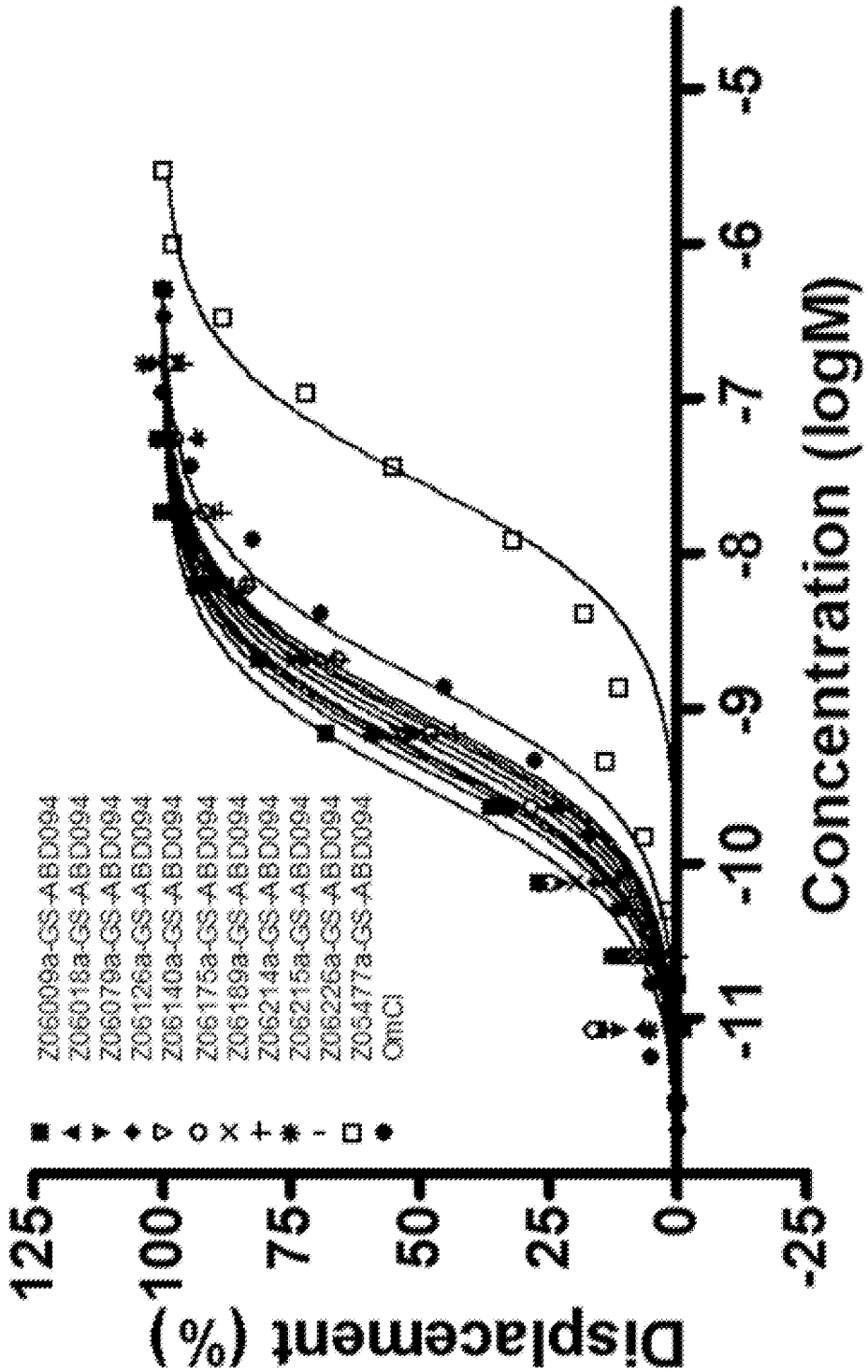

Displacement (%)
125
100
75
50
25
0
-25
Concentration (logM)
-5
-6
-7
-8
-9
-10
-11
Z06009a-GS-ABD094
Z06018a-GS-ABD094
Z06079a-GS-ABD094
Z06126a-GS-ABD094
Z06140a-GS-ABD094
Z06175a-GS-ABD094
Z06189a-GS-ABD094
Z06214a-GS-ABD094
Z06215a-GS-ABD094
Z06226a-GS-ABD094
Z05477a-GS-ABD094
OmCi

Fig. 7B

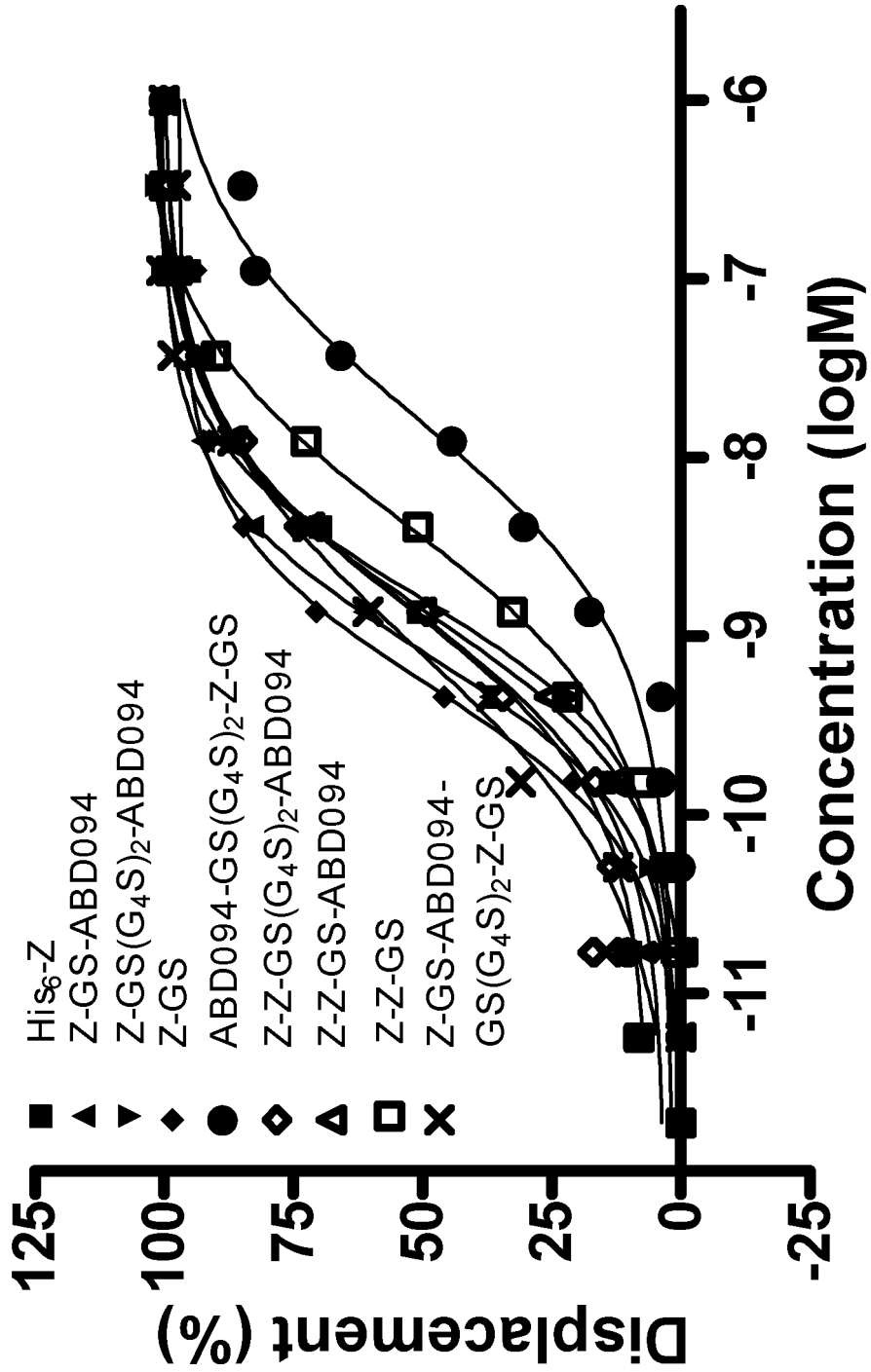

Displacement (%)
125
100
75
50
25
0
-25
-11
-10
-9
-8
-7
-6
Concentration (logM)
His6-Z
Z-GS-ABD094
Z-GS(G4S)2-ABD094
Z-GS
ABD094-GS(G4S)2-Z-GS
Z-Z-GS(G4S)2-ABD094
Z-Z-GS-ABD094
Z-Z-GS
Z-GS-ABD094-GS(G4S)2-Z-GS

Fig. 8A

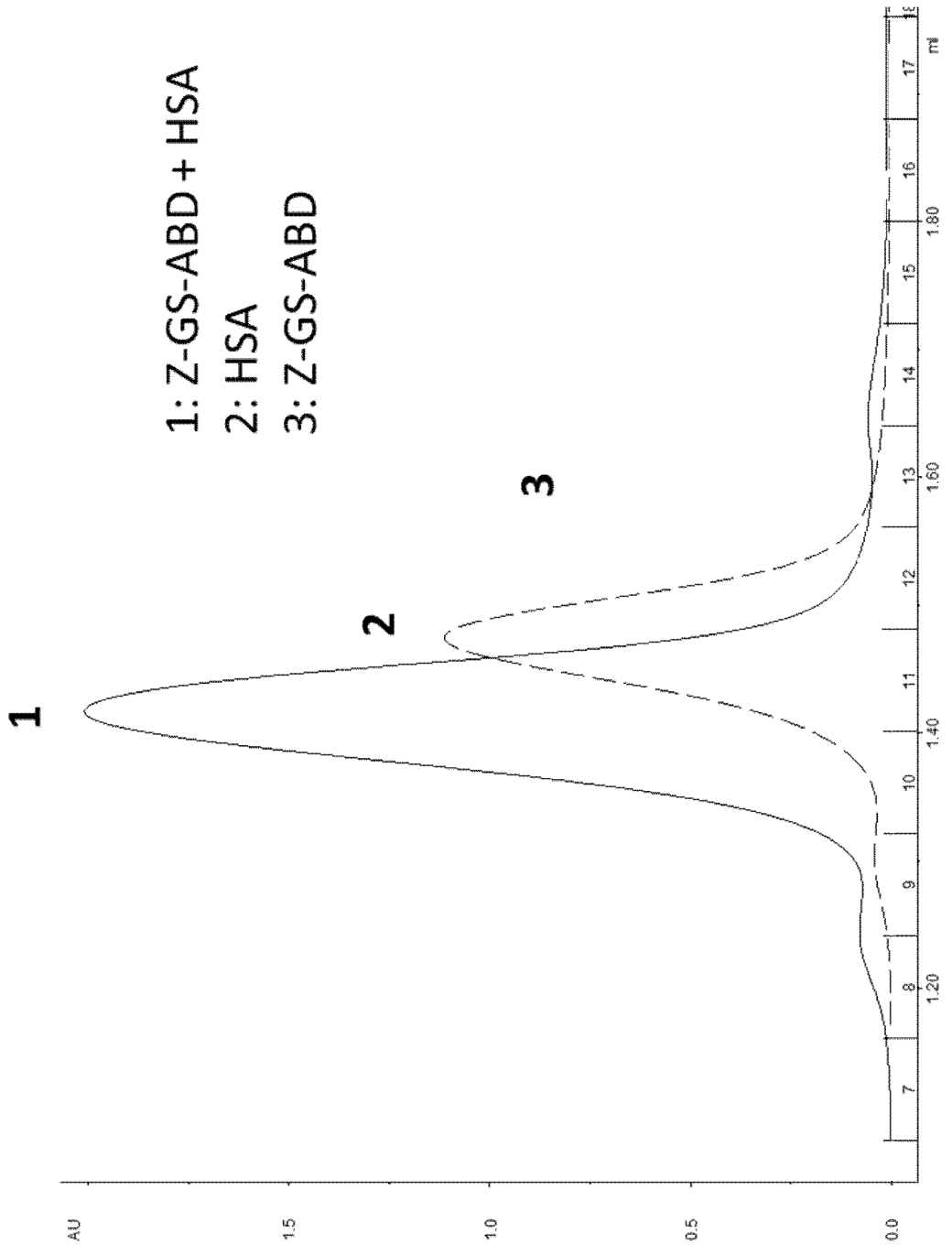


Fig. 8B

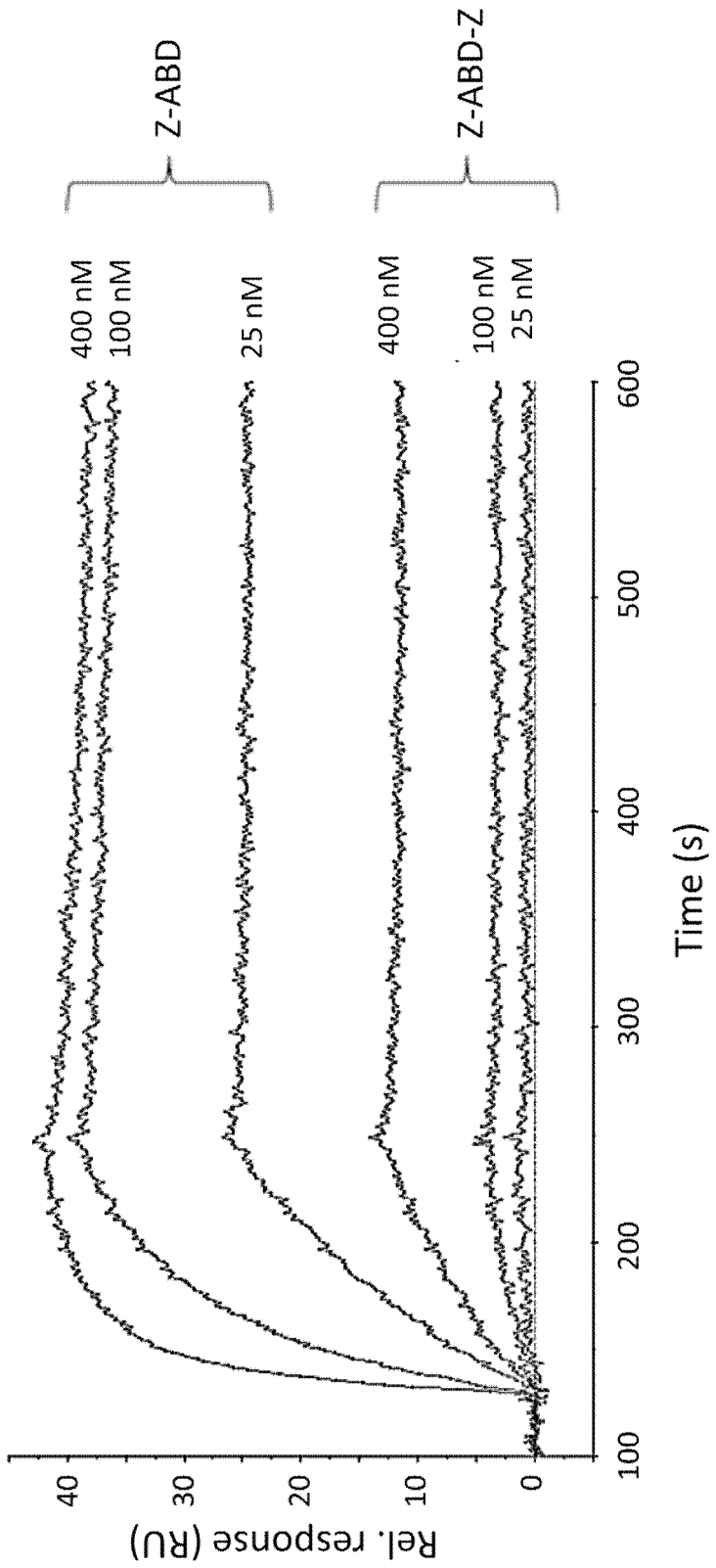

Z-ABD
Z-ABD-Z
400 nM
100 nM
25 nM
400 nM
100 nM
25 nM
Rel. response (RU)
Time (s)
0
10
20
30
40
100
200
300
400
500
600

Fig. 9

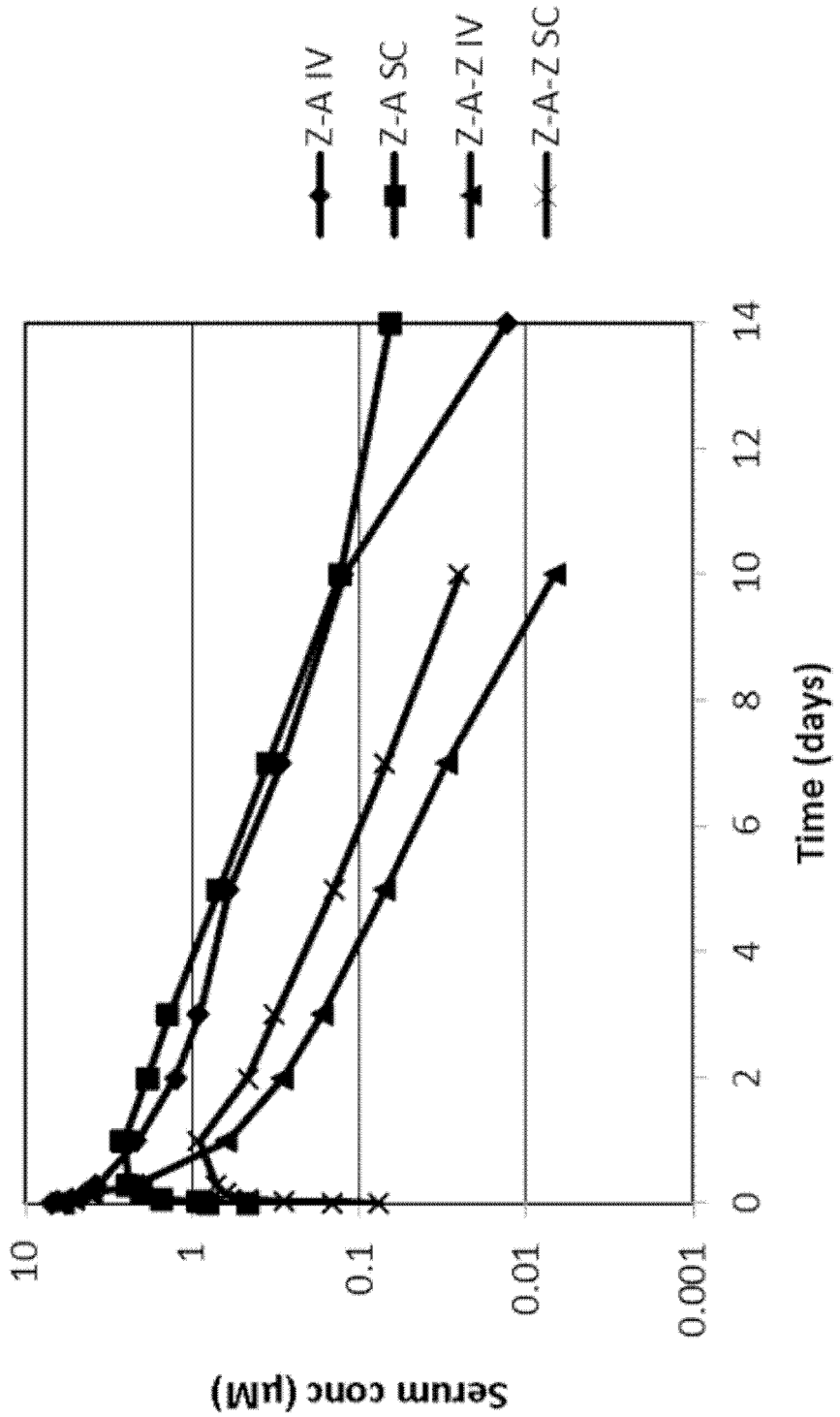

Z-A IV
Z-A SC
Z-A-Z IV
Z-A-Z SC
Serum conc (µM)
10
1
0.1
0.01
0.001
0
2
4
6
8
10
12
14
Time (days)

Fig. 10

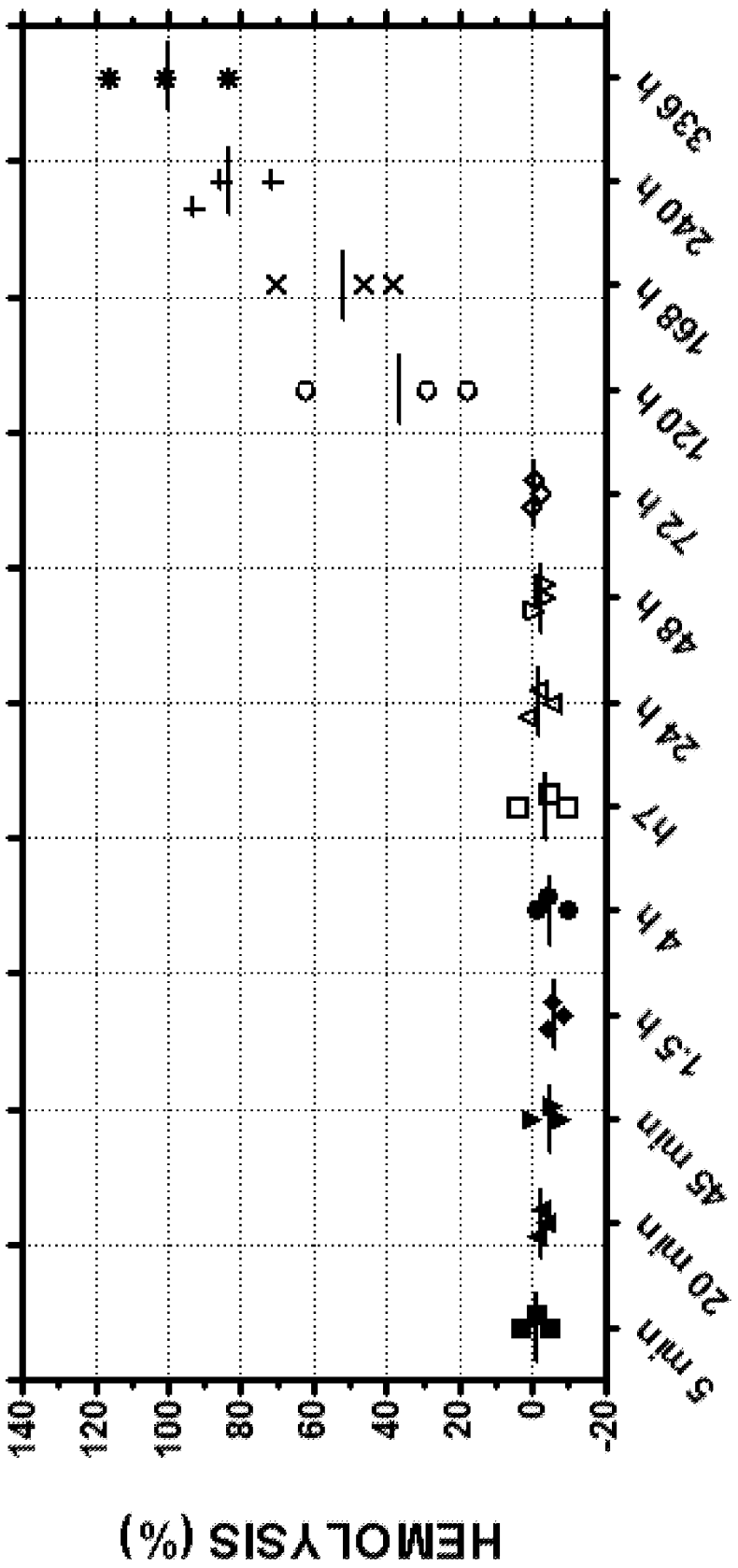

HEMOLYSIS (%)
140
120
100
80
60
40
20
0
-20
5 min
20 min
45 min
1,5 h
4 h
h7
24 h
48 h
72 h
120 h
168 h
240 h
336 h

Fig. 11

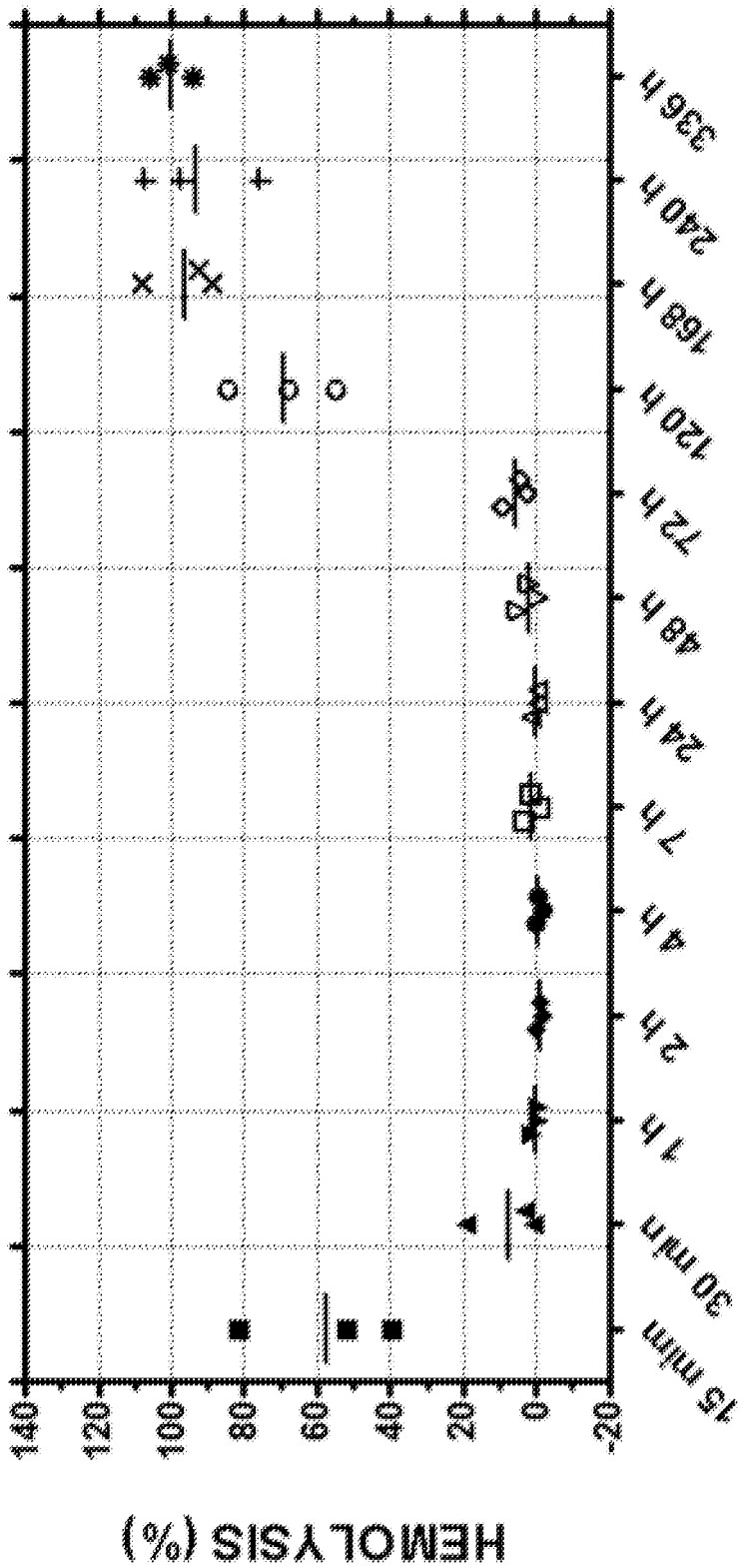

HEMOLYSIS (%)
140
120
100
80
60
40
20
0
-20
15 min
30 min
1 h
2 h
4 h
7 h
24 h
48 h
72 h
120 h
168 h
240 h
336 h

Fig. 12

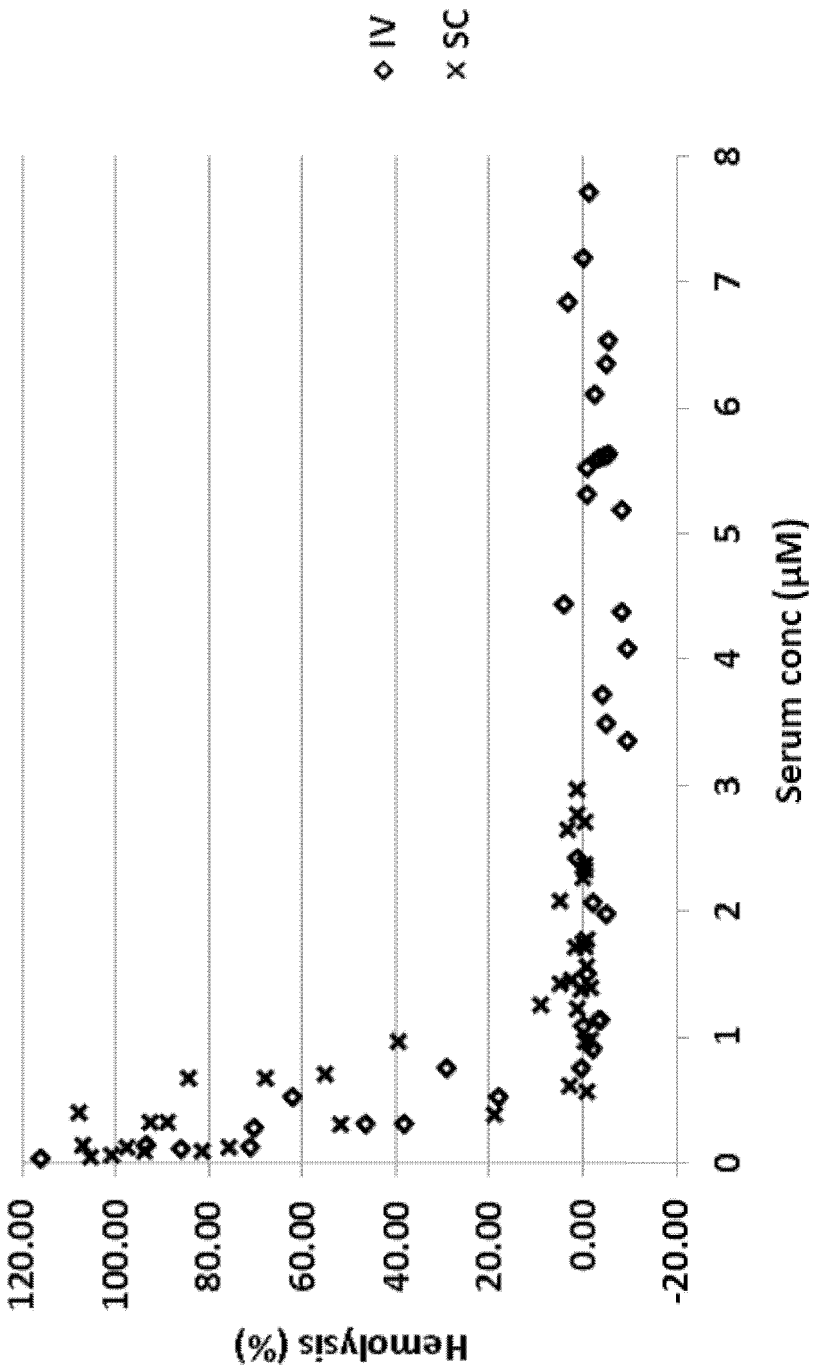

IV
SC
Hemolysis (%)
120.00
100.00
80.00
60.00
40.00
20.00
0.00
-20.00
0
1
2
3
4
5
6
7
8
Serum conc (µM)

Fig. 13

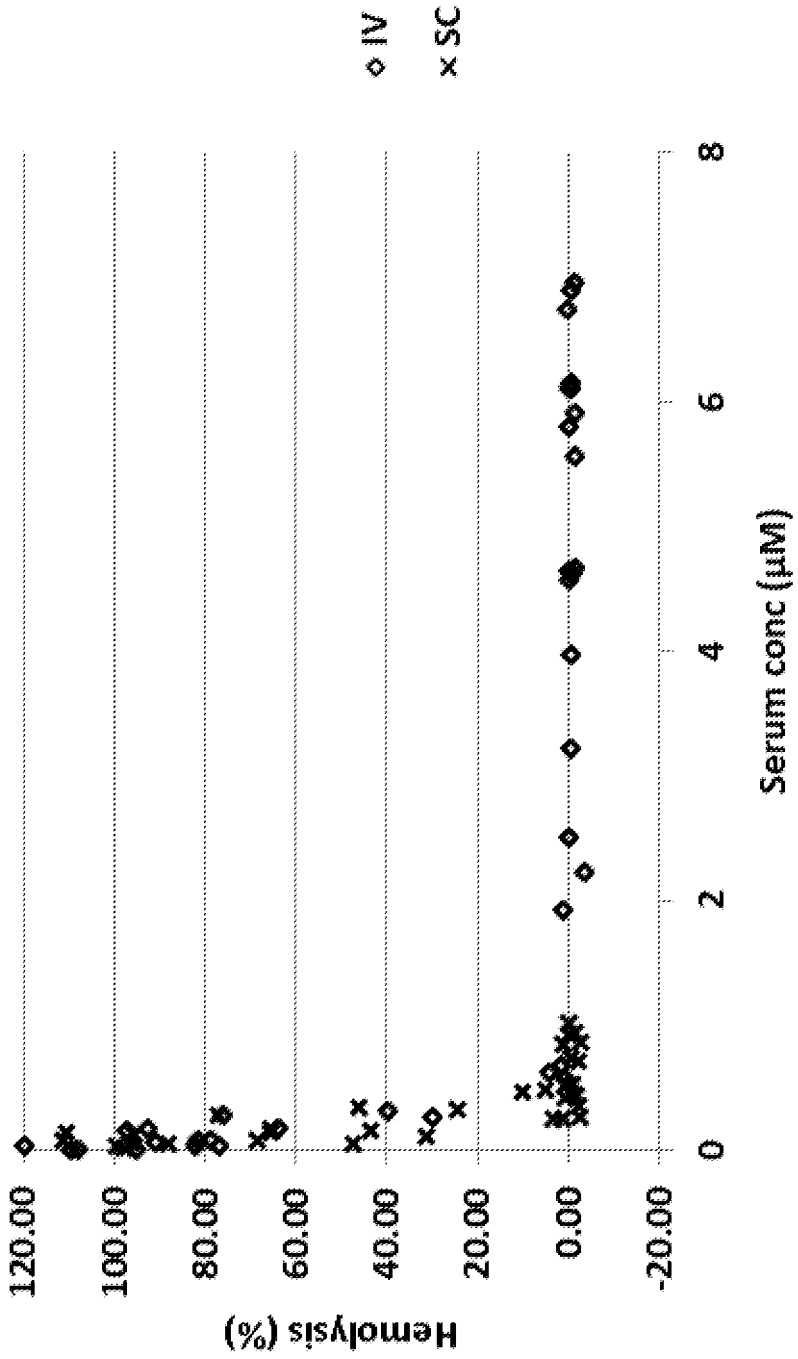

IV
SC
Hemolysis (%)
120.00
100.00
80.00
60.00
40.00
20.00
0.00
-20.00
0
2
4
6
8
Serum conc (µM)

Fig. 14

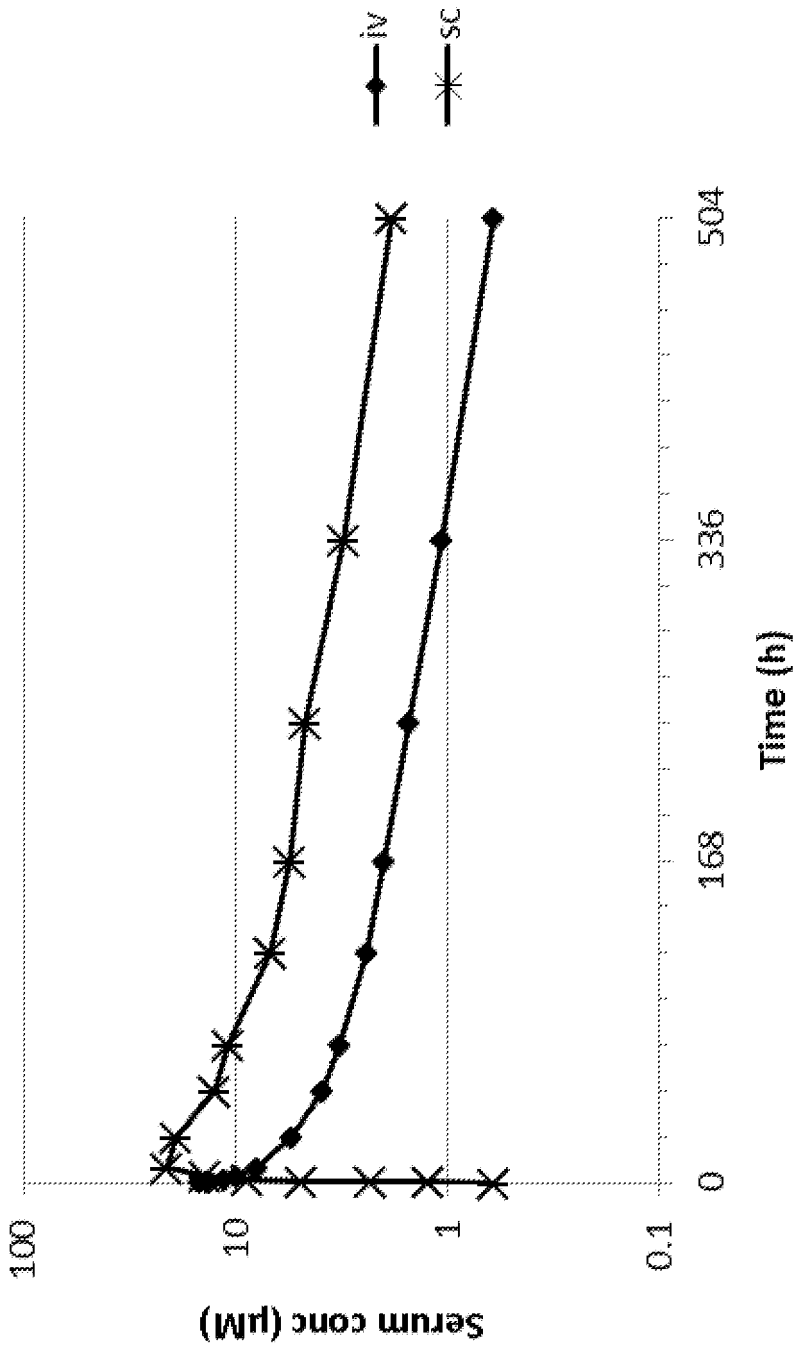
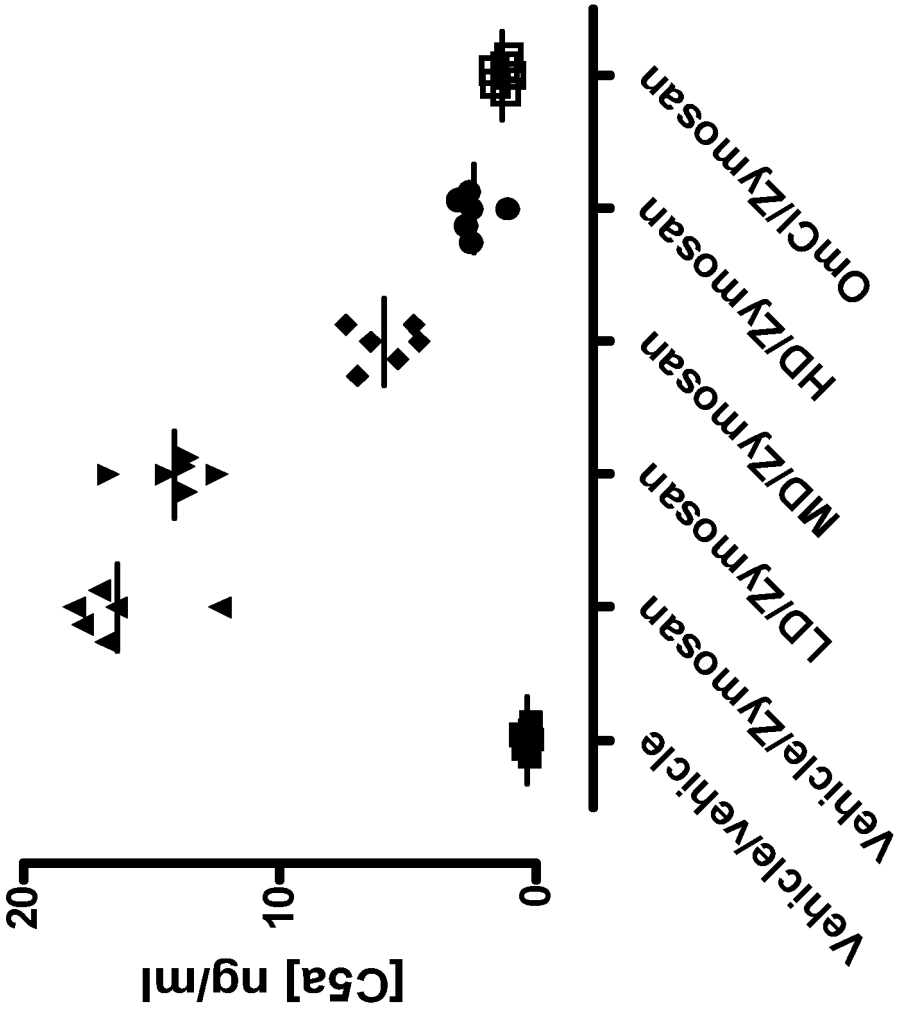


Fig. 15


[C5a] ng/ml
0
10
20
Vehicle/vehicle
Vehicle/zymosan
LD/zymosan
MD/zymosan
HD/zymosan
OmCI/zymosan

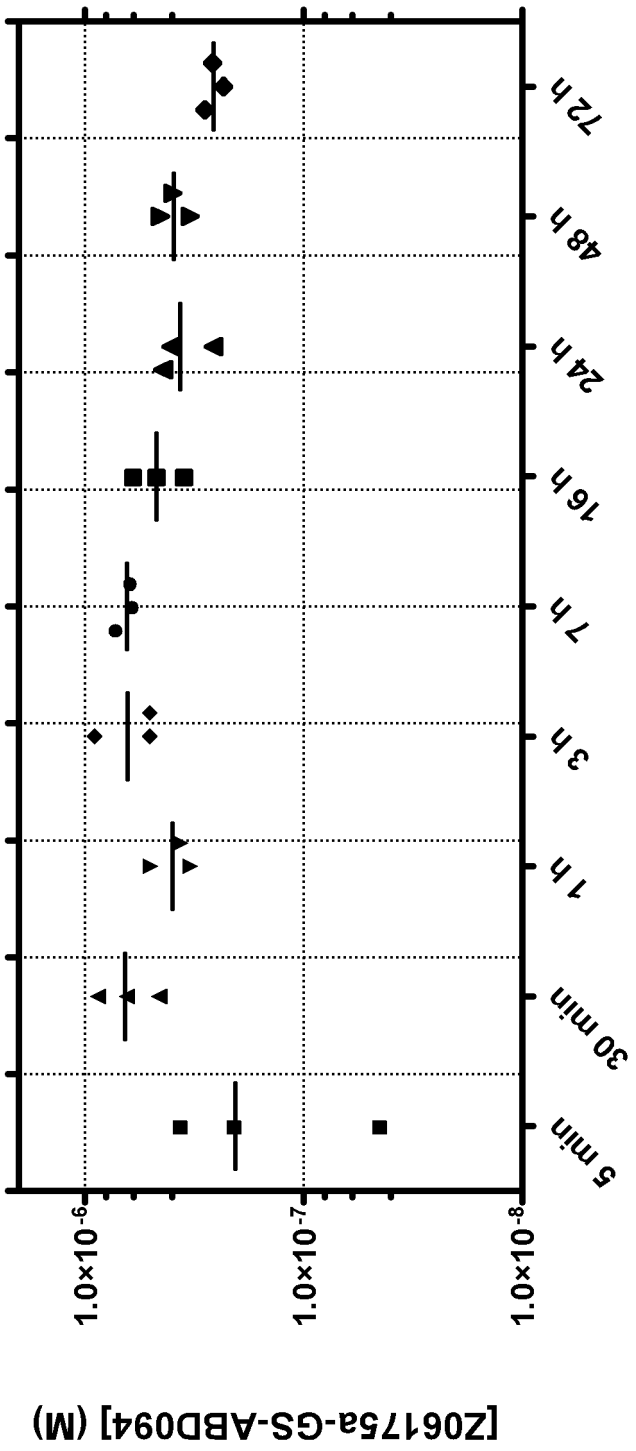

[Z06175a-GS-ABD094] (M)
1.0×10-6
1.0×10-7
1.0×10-8
5 min
30 min
1 h
3 h
7 h
16 h
24 h
48 h
72 h

Fig. 16A

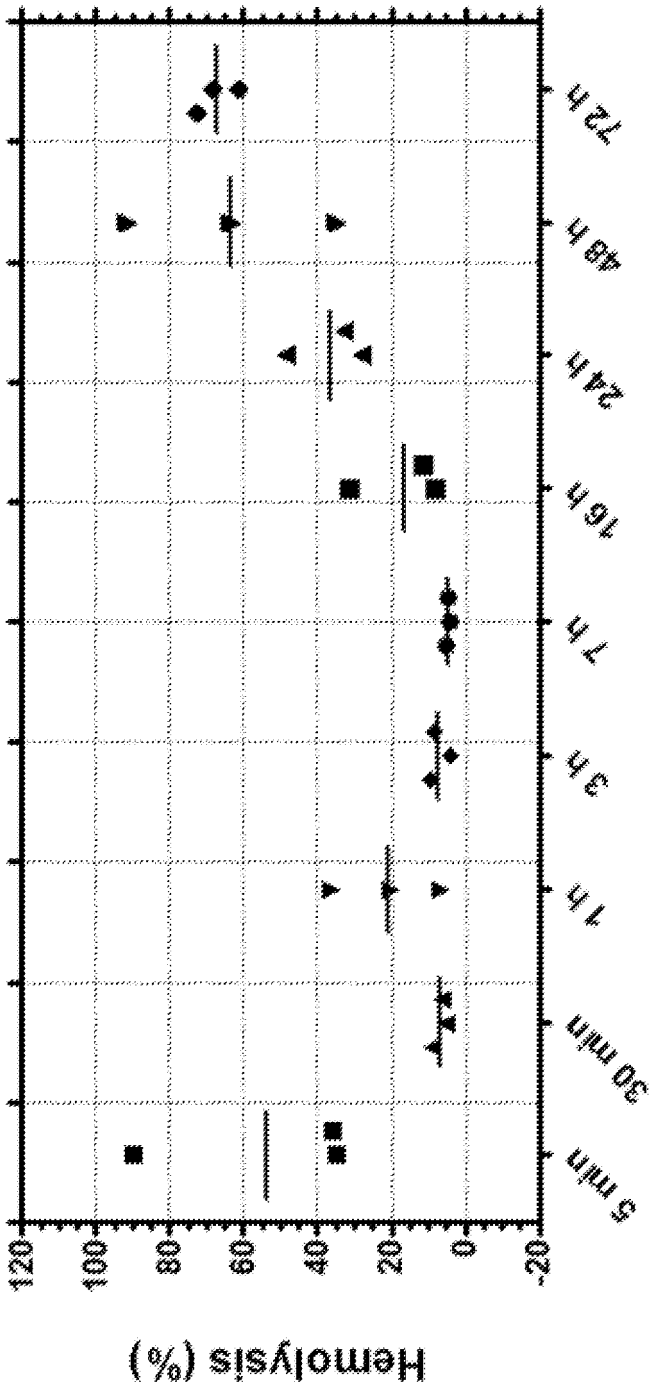

Hemolysis (%)
120
100
80
60
40
20
0
-20
5 min
30 min
1 h
3 h
7 h
16 h
24 h
48 h
72 h

Fig. 16B