HXL1	T.aestivum	100.00	SEQ ID NO:4
SbD17	S.bicolor	97.96	SEQ ID NO:48
ZmD9	Z.mays	97.96	SEQ ID NO:49
SolD1	S.officinarum	93.88	SEQ ID NO:50
ObD1	O.brachyantha	81.63	SEO ID NO:51
HXL2	T.aestivum	100.00	SEQ ID NO:5
Ta-PDF30	T.aestivum	97.96	SEQ ID NO:52
TtD4	T.turgidum	97.96	SEQ ID NO:53
Ta-PDF25	T.aestivum	87.76	SEQI D NO:54
TtD1	T.turgidum	85.71	SEQ ID NO:55
Tm-AMP-D1.2	T.urartu	85.71	SEQ ID NO:56
Ta-PDF23	T.aestivum	83.67	SEQ ID NO:57
TaD18	T.aestivum	83.67	SEQ ID NO:58
AtaD3	A.tauschii	82.98	SEQ ID NO:59
Tm-AMP-D1.2	T.urartu	82.98	SEQ ID NO:60
AtaD4	A.tauschii	81.63	SEQ ID NO:61
Ta-PDF13	T.aestivum	81.63	SEQ ID NO:62
TaD15	T.aestivum	81.63	SEQ ID NO:63
rmTAD1	T.aestivum	81.63	SEQ ID NO:64
TtD2	T.turgidum	81.63	SEQ ID NO:65
TtD5	T.turgidum	81.63	SEQ ID NO:66

Figure 1(a)

HXL4	N.benthamiana	100.00	SEQ ID NO:7
J1-2	C.annuum	95.74	SEQ ID NO:67
defensin	N.attenuata	91.49	SEQ ID NO:68
StD15	S.tuberosum	91.49	SEQ ID NO:69
AtD84	A.thaliana	85.11	SEQ ID NO:70
PpD1	P.persica	85.11	SEQ ID NO:71
PpyD3	P.pyrifolia	85.11	SEQ ID NO:72
AhS4	A.halleri	82.98	SEQ ID NO:73
CanD5	C.annuum	82.98	SEQ ID NO:74
CsaD1	C.sativa	82.98	SEQ ID NO:75
Eg-PDF	E.grandis	82.98	SEQ ID NO:76
Lm-PDF	L.michauxii	82.98	SEQ ID NO:77
PvD3	P.vulgaris	82.98	SEQ ID NO:78
SlD17	S.lycopersicum	82.98	SEQ ID NO:79
Tm-PDF	T.majus	82.98	SEQ ID NO:80
BnD9	B.napus	80.85	SEQ ID NO:81
CclD4	C.clementina	80.85	SEQ ID NO:82
CrD10	C.rubella	80.85	SEQ ID NO:83
CrD11	C.rubella	80.85	SEQ ID NO:84
Ct-PDF	C.tetragonoloba	80.85	SEQ ID NO:85
Gm-PDF5	G.max	80.85	SEQ ID NO:86
GmD8	G.max	80.85	SEQ ID NO:87
LjD1	L.japonicus	80.85	SEQ ID NO:88
MtD23	M.truncatula	80.85	SEQ ID NO:89
NaD2	N.alata	80.85	SEQ ID NO:90
NtD4	N.tabacum	80.85	SEQ ID NO:91
ObD2	O.brachyantha	80.85	SEQ ID NO:92
PvD6	P.vulgaris	80.85	SEQ ID NO:93
ScD1	S.chacoense	80.85	SEQ ID NO:94
VuD2	V.unguiculata	80.85	SEQ ID NO:95
Vs-PDF	V.vinifera	80.85	SEQ ID NO:96

Figure 1(b)

HXL8	P.pentandra	100.00	SEQ ID NO:1
Pp-PDF	P.pentandra	78.00	SEQ ID NO:97
HXL9	Z.mays	100.00	SEQ ID NO:9
ZmD25	Z.mays	60.00	SEQ ID NOL987
HXL12	A.retroflexus	100.00	SEQ ID NO:10
SolD1	S.oleracea	66.67	SEQ ID NO:99
HXL13	T.aestivum	100.00	SEQ ID NO:11
GmD7	G.max	95.74	SEQ ID NO:100
HXL15	O.sativa	100.00	SEQ ID NO:12
DLP322	B.distachyon	81.63	SEQ ID NO:101
OsD17	O.sativa	97.96	SEQ ID NO:102
ObD1	O.brachyantha	93.88	SEQ ID NO:103
HXL32	T.aestivum	100.00	SEQ ID NO:13
Tk-AMP-D2	A.tauschii	97.96	SEQ ID NO:104
Ta-PDF33	T.aestivum	97.96	SEQ ID NO:105
TaD19	T.aestivum	93.88	SEQ ID NO:106
rmTAD1	T.aestivum	89.80	SEQ ID NO:107
Ta-PDF30	T.aestivum	81.63	SEQ ID NO:108

Figure 1(c)

HXL33	P.argentatum	100.00	SEQ ID NO:14
HaD3	H.annuus	87.23	SEQ ID NO:109
EpD2	E.parvulum	85.11	SEQ ID NO:110
JcD1	J.curcas	82.98	SEQ ID NO:111
PgD1	P.ginseng	82.98	SEQ ID NO:112
VfoD1	V.fordii	82.98	SEQ ID NO:113
BnD9	B.napus	80.85	SEQ ID NO:114
EsD5	E.salsugineum	80.85	SEQ ID NO:115
FvD6	F.vesca	80.85	SEQ ID NO:116
JcD2	J.curcas	80.85	SEQ ID NO:117
Pa-PDF	P.argentatum	80.85	SEQ ID NO:118
RcD3	R.communis	80.85	SEQ ID NO:119
SlD20	S.lycopersicum	80.85	SEQ ID NO:120
StD13	S.tuberosum	80.85	SEQ ID NO:121
HXL34	N.benthamiana	100.00	SEQ ID NO:15
ScD1	S.chacoense	87.23	SEQ ID NO:122
SlD17	S.lycopersicum	85.11	SEQ ID NO:123
NaD2	N.alata	80.85	SEQ ID NO:124
NtD4	N.tabacum	80.85	SEQ ID NO:125

Figure 1(d)

NaD1	N.alata	100.00	SEQ ID NO:18
FST	N.tabacum	97.87	SEQ ID NO:126
NtD3	N.tabacum	95.74	SEQ ID NO:127
NeThio2	N.excelsior	93.62	SEQ ID NO:128
SL14B1	N.gossei	93.62	SEQ ID NO:129
SL78B	N.amplexicaulis	91.49	SEQ ID NO:130
NeD1	N.excelsior	91.49	SEQ ID NO:131
SL137	N.goodspeedii	91.49	SEQ ID NO:132
NsD1	N.suaveolens	91.49	SEQ ID NO:16
SL549	N.burbidgeae	89.36	SEQ ID NO:133
SL445	N.truncata	89.36	SEQ ID NO:134
SL99	N.cavicola	87.23	SEQ ID NO:135
NsD2	N.suaveolens	87.23	SEQ ID NO:17
SL446	N.truncata	87.23	SEQ ID NO:136
NpD1	N.paniculata	86.67	SEQ ID NO:137
SL548	N.burbidgeae	85.11	SEQ ID NO:138
SL97	N.cavicola	85.11	SEQ ID NO:139
SL16	N.megalosiphon	85.11	SEQ ID NO:140
SL12	N.megalosiphon	85.11	SEQ ID NO:141
SL543	N.burbidgeae	82.98	SEQ ID NO:142
SL14	N.megalosiphon	82.98	SEQ ID NO:143
NoD173	N.occidentalis	82.98	SEQ ID NO:19
SL171	N.occidentalis	80.85	SEQ ID NO:144

Dm-AMP1	D.merckii	100.00	SEQ ID NO:20
Vm-PDF	V.mespilifolia	98.00	SEQ ID NO:145
VmD1	V.mespilifolia	96.00	SEQ ID NO:146
Ds-PDF	D.sinuata	93.88	SEQ ID NO:147
Hs-PDF	H.annuus	92.00	SEQ ID NO:148
Pa-PDF	P.argentatum	92.00	SEQ ID NO:149
HaD2	H.annuus	88.00	SEQ ID NO:150
EprD1	E.prostrata	85.71	SEQ ID NO:151
PpeD5	P.pentandra	84.00	SEQ ID NO:152

Figure 1(e)

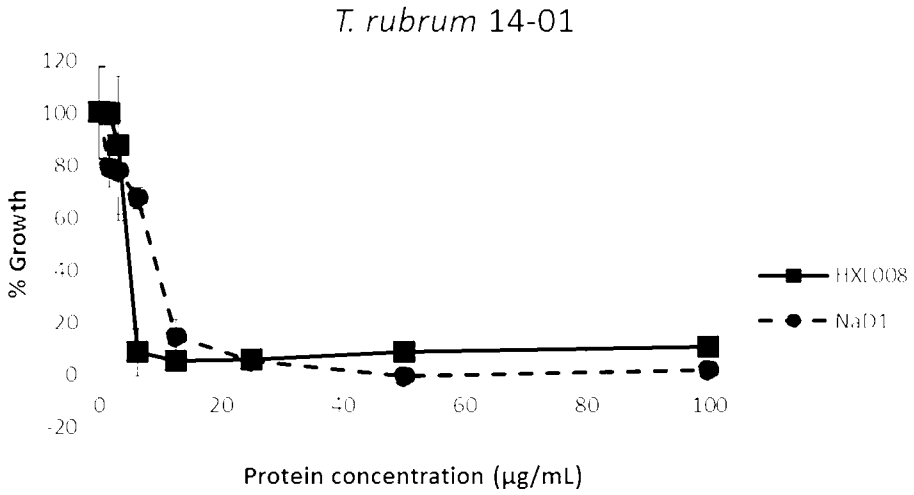


Figure 2(a)

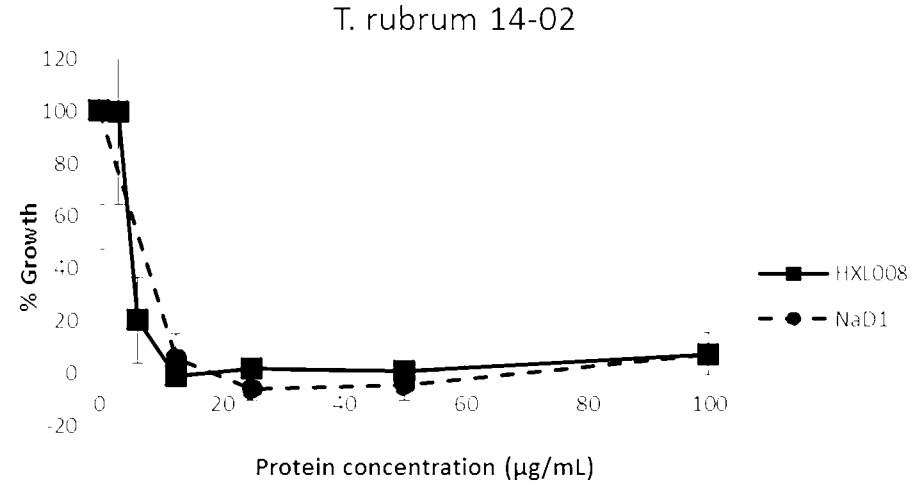


Figure 2(b)

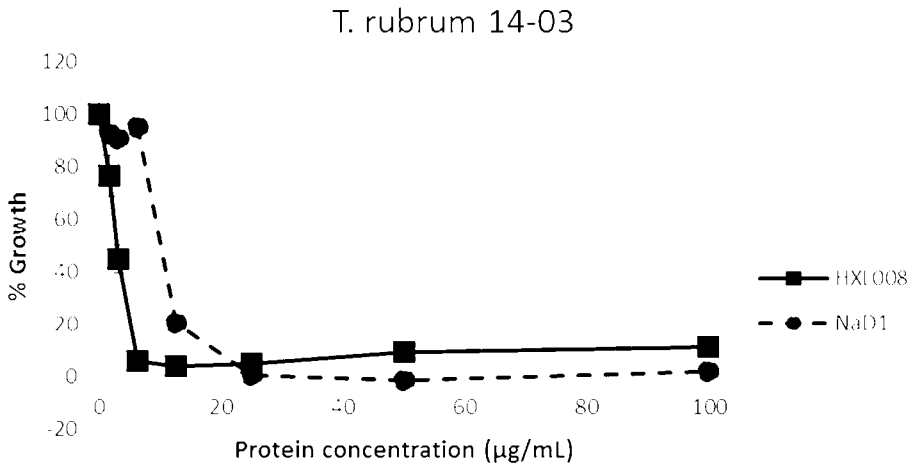


Figure 2(c)

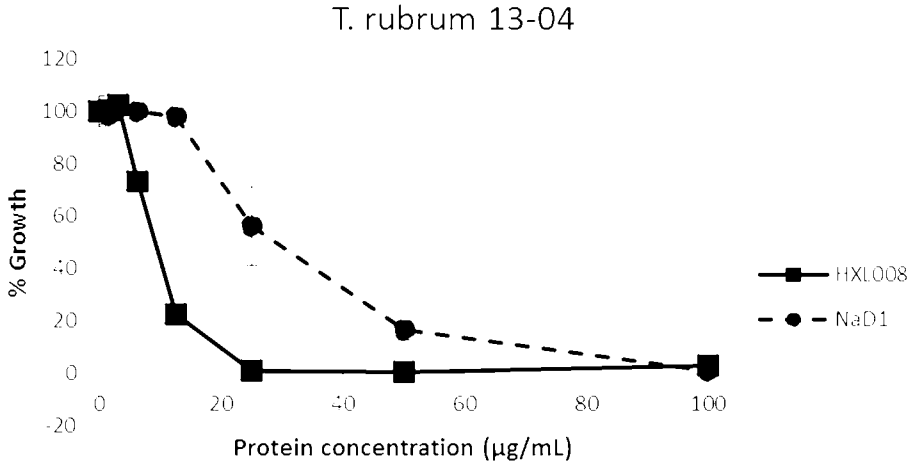


Figure 2(d)

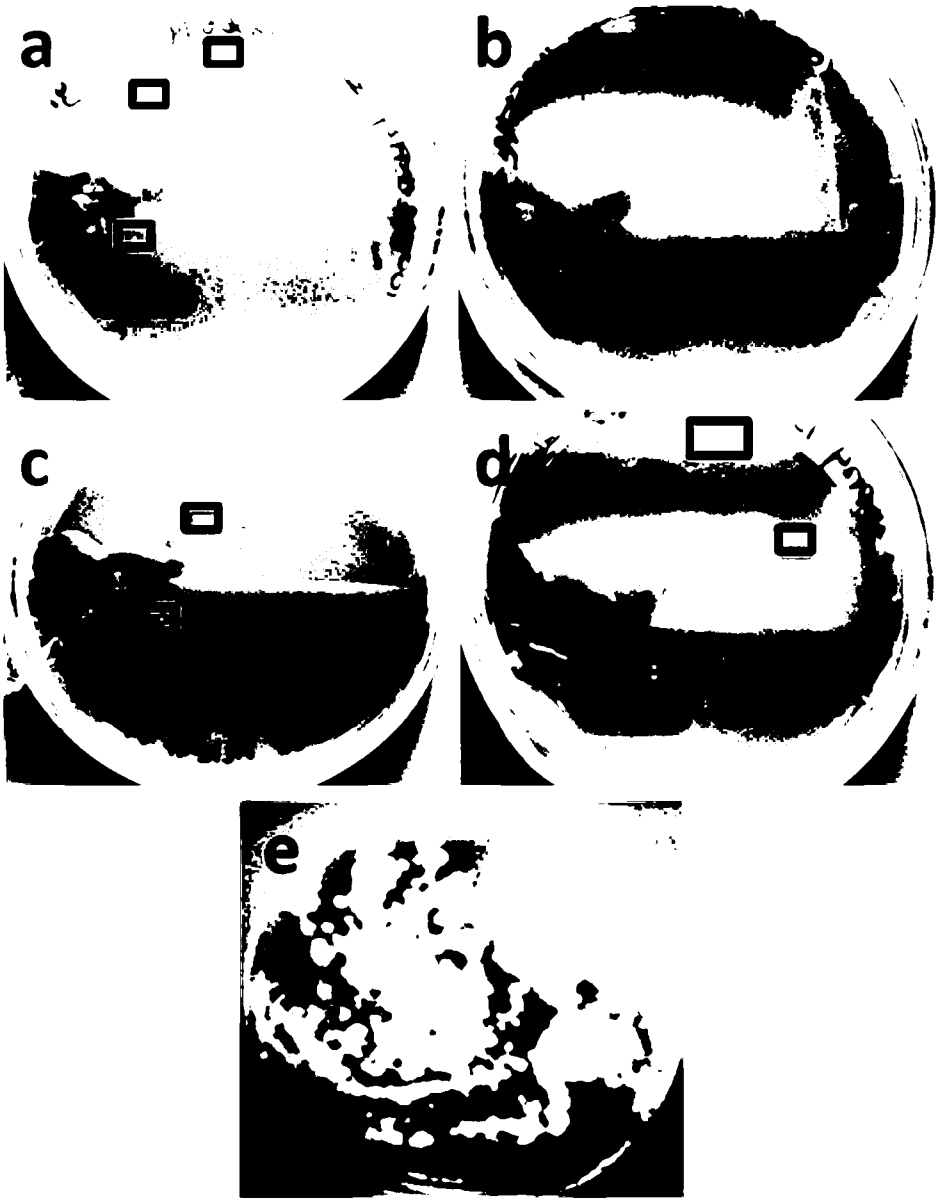


Figure 3

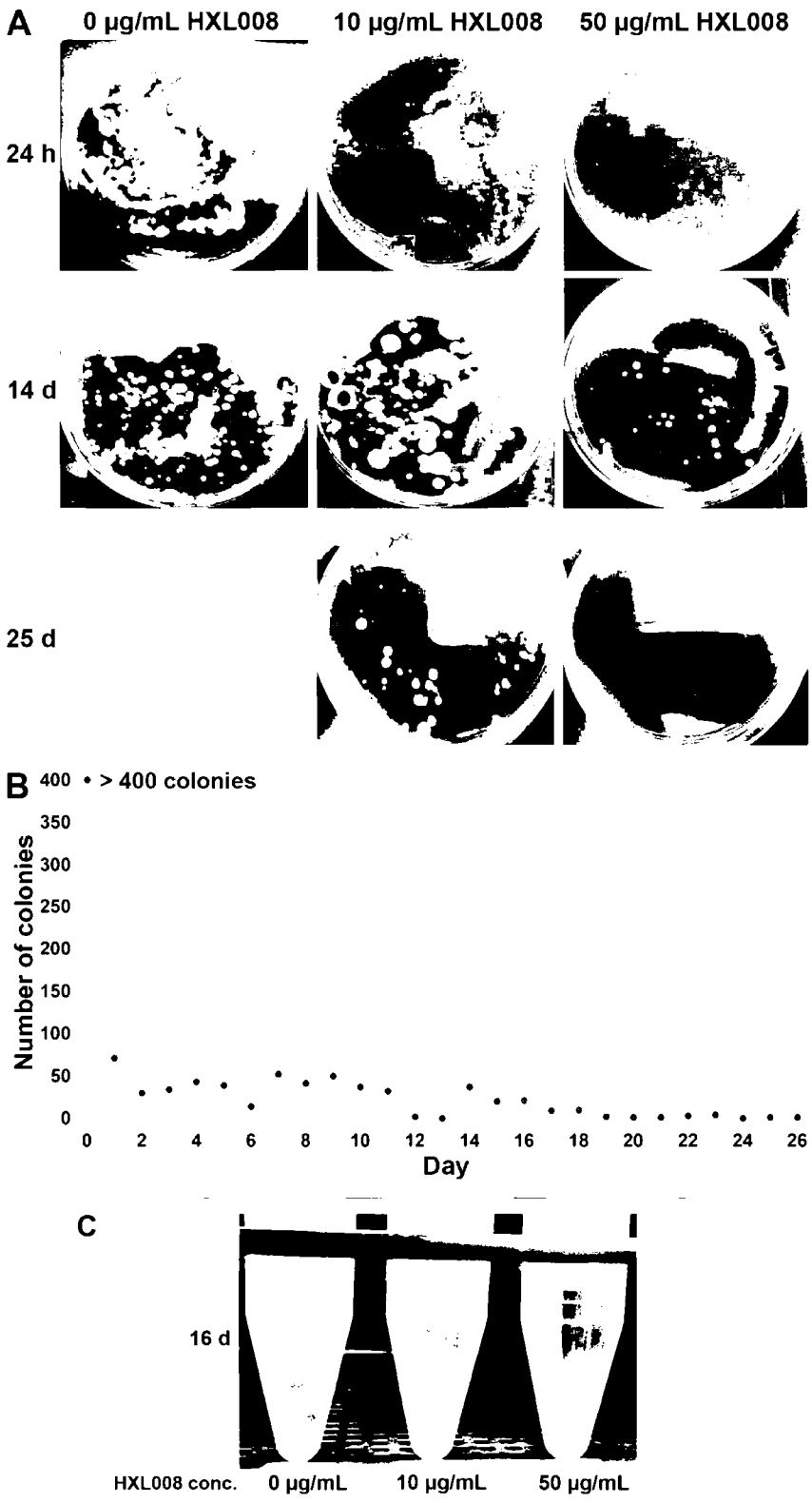

A
0 µg/mL HXL008
10 µg/mL HXL008
50 µg/mL HXL008
24 h
14 d
25 d
B
400 • > 400 colonies
Number of colonies
350
300
250
200
150
100
50
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Day
C
16 d
HXL008 conc. 0 µg/mL 10 µg/mL 50 µg/mL

Figure 4

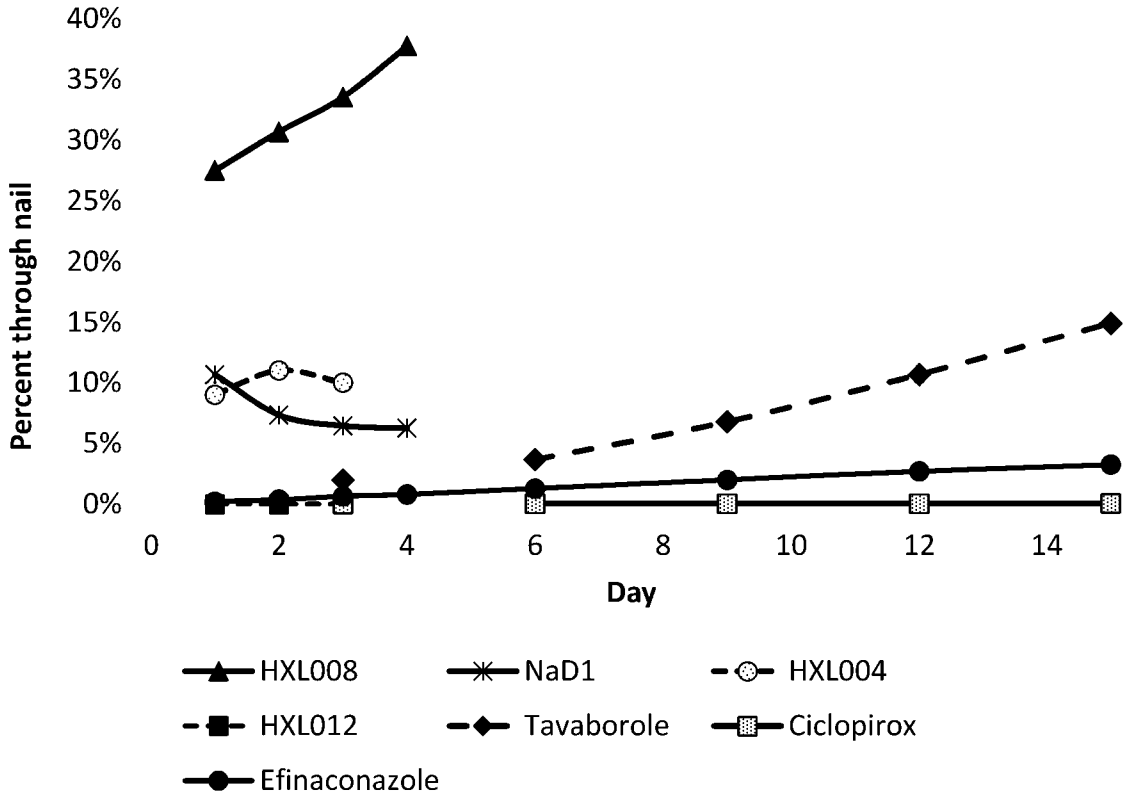

40%
35%
30%
25%
20%
15%
10%
5%
0%
Percent through nail
0
2
4
6
8
10
12
14
Day
HXL008
NaD1
HXL004
HXL012
Tavaborole
Ciclopirox
Efinaconazole

Figure 5

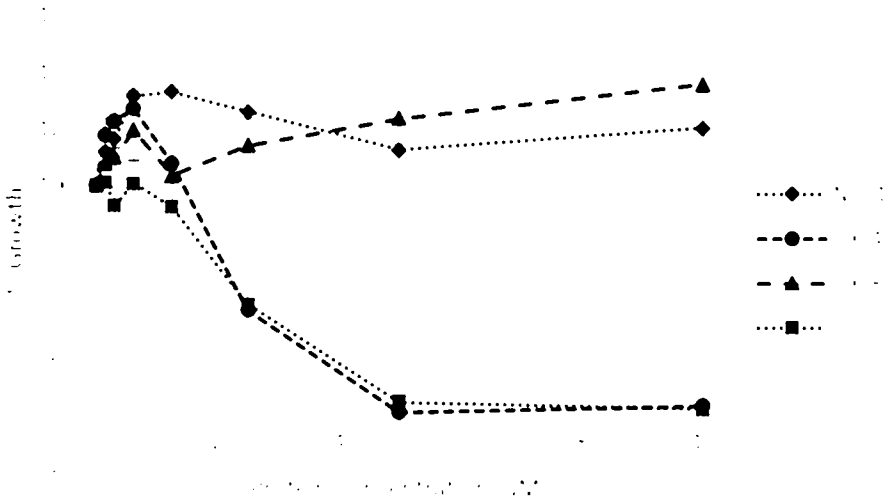


Figure 6

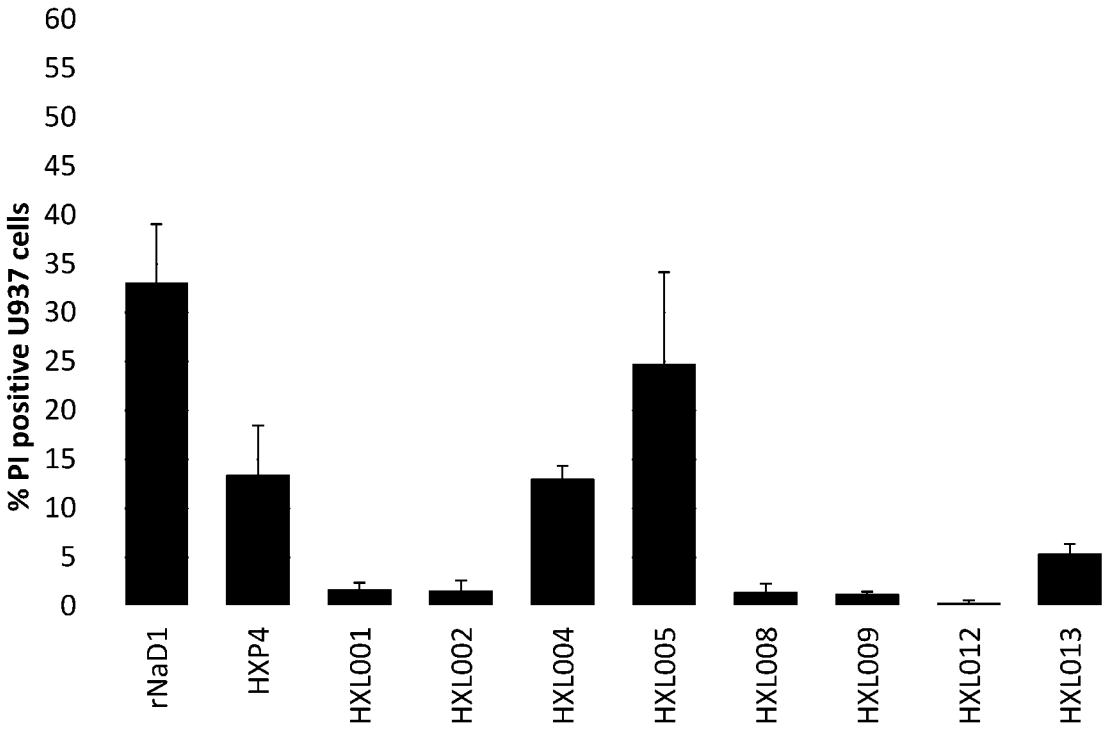

% PI positive U937 cells
60
55
50
45
40
35
30
25
20
15
10
5
0
rNaD1
HXP4
HXL001
HXL002
HXL004
HXL005
HXL008
HXL009
HXL012
HXL013

Figure 7

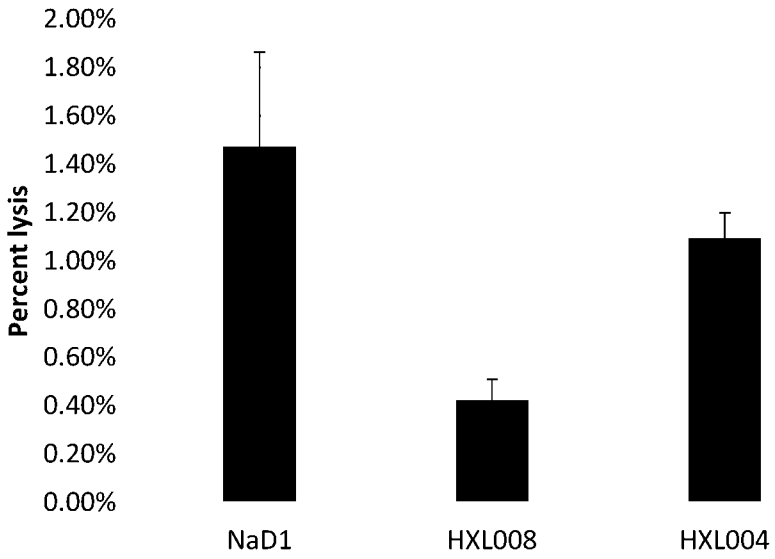

2.00%
1.80%
1.60%
1.40%
1.20%
1.00%
0.80%
0.60%
0.40%
0.20%
0.00%
Percent lysis
NaD1
HXL008
HXL004

Figure 8

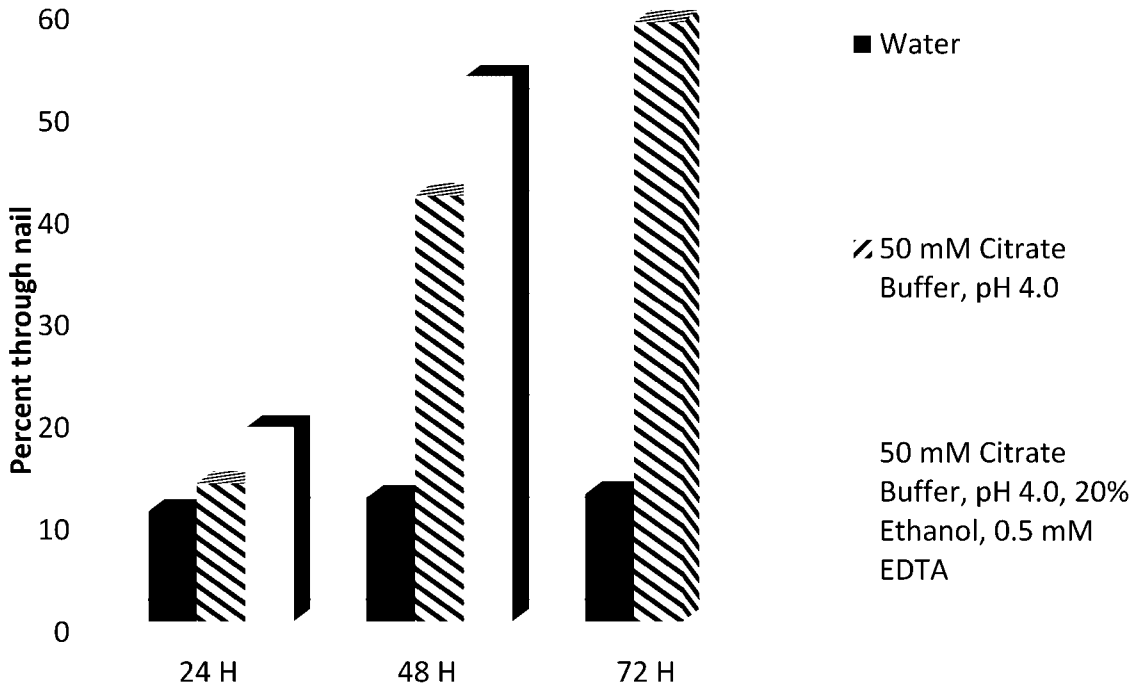

60
50
40
30
20
10
0
Percent through nail
24 H
48 H
72 H
Water
50 mM Citrate Buffer, pH 4.0
50 mM Citrate Buffer, pH 4.0, 20% Ethanol, 0.5 mM EDTA

Figure 9

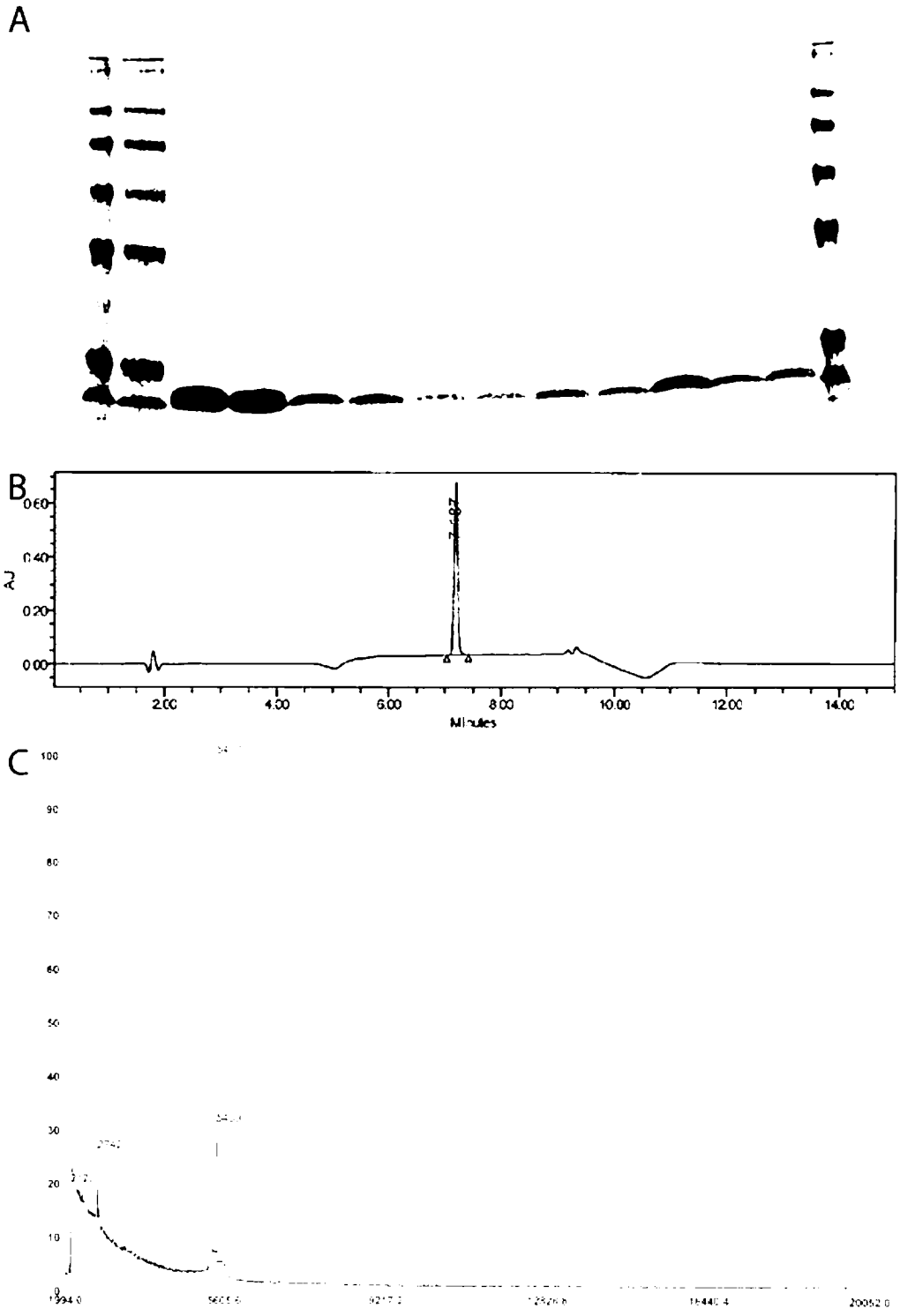

A
B
0.60
0.40
0.20
0.00
AU
7.487
2.00
4.00
6.00
8.00
10.00
12.00
14.00
Minutes
C
100
90
80
70
60
50
40
30
20
10
0

Figure 10

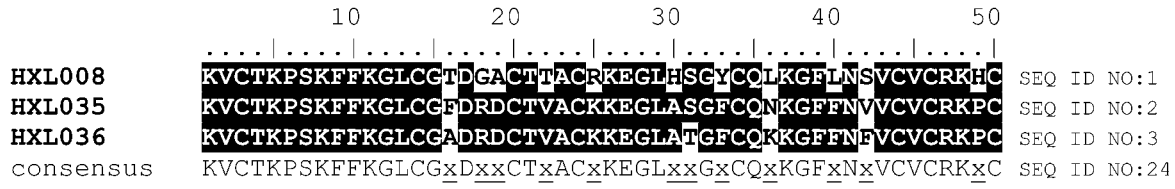

10 20 30 40 50
HXL008 KVCTKPSKFFKGLCGTDGACTTACRKEGLHSGYCQLKGFLNSVCVCRKHC SEQ ID NO:1
HXL035 KVCTKPSKFFKGLCGFDRDCTVACKKEGLASGFCQNKGFFNVVCVCRKPC SEQ ID NO:2
HXL036 KVCTKPSKFFKGLCGADRDCTVACKKEGLATGFCQKKGFFNFVCVCRKPC SEQ ID NO:3
consensus KVCTKPSKFFKGLCGxDxxCTxACxKEGLxxGxCQxKGFxNxVCVCRKxC SEQ ID NO:24

Figure 11