

Supplementary Materials

Tryptophan-Containing Cyclic Decapeptides with Activity against Plant Pathogenic Bacteria

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Antibacterial activity and hemolysis of the cyclic peptides incorporating a tryptophan.

Table S1. Antibacterial activity (MIC) and cytotoxicity of cyclic peptides incorporating a Trp.

Peptide		MIC (μ M)			Hemolysis (%) ^a	
Code	Sequence	<i>Pss</i> ^b	<i>Xav</i> ^b	<i>Ea</i> ^b	50 μ M	125 μ M
BPC016W	c(KLKLKWKLKQ)	12.5-25	3.1-6.2	>100	25	32
BPC058W	c(KKKKKWLLLQ)	12.5-25	25-50	50-75	2	3
BPC060W	c(KKKKLWKLQ)	3.1-6.2	6.2-12.5	12.5-25	22	29
BPC062W	c(KKKLKWKLQ)	3.1-6.2	6.2-12.5	12.5-25	3	4
BPC064W	c(KKLKKWKLQ)	3.1-6.2	6.2-12.5	6.2-12.5	17	25
BPC066W	c(KLKKKWKLQ)	6.2-12.5	6.2-12.5	6.2-12.5	33	41
BPC068W	c(LKKKKWKLQ)	6.2-12.5	1.6-3.1	25-50	6	7
BPC070W	c(KKKKLWLKLQ)	6.2-12.5	1.6-3.1	12.5-25	6	9
BPC072W	c(KKKLKWKLQ)	3.1-6.2	1.6-3.1	12.5-25	7	9
BPC074W	c(KKLKKWLKLQ)	6.2-12.5	1.6-3.1	12.5-25	39	50
BPC076W	c(KLKKKWKLQ)	6.2-12.5	1.6-3.1	6.2-12.5	15	21
BPC078W	c(LKKKKWLKLQ)	6.2-12.5	0.8-1.6	25-50	3	6
BPC080W	c(KKKLLWKKLQ)	6.2-12.5	0.8-1.6	12.5-25	3	4
BPC082W	c(KKLKLWKKLQ)	6.2-12.5	1.6-3.1	12.5-25	26	34
BPC084W	c(KLKKLWKKLQ)	12.5-25	1.6-3.1	12.5-25	54	60
BPC086W	c(LKKKLWKKLQ)	3.1-6.2	0.8-1.6	6.2-12.5	4	8
BPC088W	c(KKLLKWKKLQ)	6.2-12.5	1.6-3.1	12.5-25	14	19
BPC090W	c(KLKLKWKKLQ)	6.2-12.5	1.6-3.1	12.5-25	9	15
BPC092W	c(LKKLKWKKLQ)	6.2-12.5	3.1-6.2	50-75	2	3
BPC094W	c(KLLKKWKKLQ)	6.2-12.5	3.1-6.2	25-50	35	42
BPC096W	c(LKLKKWKKLQ)	6.2-12.5	1.6-3.1	12.5-25	10	15
BPC098W	c(LLKKKWKKLQ)	3.1-6.2	1.6-3.1	12.5-25	12	18
BPC100W	c(KKKKLWLLKQ)	12.5-25	6.2-12.5	>100	19	27
BPC102W	c(KKKLKWLLKQ)	3.1-6.2	6.2-12.5	12.5-25	12	17
BPC104W	c(KKLKKWLLKQ)	6.2-12.5	6.2-12.5	12.5-25	2	3
BPC106W	c(KLKKKWLLKQ)	3.1-6.2	3.1-6.2	25-50	2	2
BPC108W	c(LKKKKWLLKQ)	1.6-3.1	1.6-3.1	6.2-12.5	4	5
BPC110W	c(KKKLLWKLKQ)	3.1-6.2	6.2-12.5	12.5-25	3	4
BPC112W	c(KKLKLWKLKQ)	3.1-6.2	6.2-12.5	50-75	3	4
BPC114W	c(KLKKLWKLKQ)	3.1-6.2	1.6-3.1	12.5-25	29	38
BPC116W	c(LKKKLWKLKQ)	3.1-6.2	3.1-6.2	12.5-25	9	14
BPC118W	c(KKLLKWKLKQ)	6.2-12.5	12.5-25	12.5-25	4	4
BPC120W	c(LKKLKWKLKQ)	3.1-6.2	1.6-3.1	12.5-25	6	9
BPC122W	c(KLLKKWKLKQ)	3.1-6.2	6.2-12.5	12.5-25	2	6
BPC124W	c(LKLKKWKLKQ)	6.2-12.5	3.1-6.2	50-75	2	2
BPC126W	c(LLKKKWKLKQ)	6.2-12.5	1.6-3.1	25-50	5	9
BPC128W	c(KKKLLWLKKQ)	6.2-12.5	1.6-3.1	12.5-25	2	2
BPC130W	c(KKLKLWLKKQ)	6.2-12.5	1.6-3.1	12.5-25	1	2
BPC132W	c(KLKKLWLKKQ)	3.1-6.2	1.6-3.1	12.5-25	5	8
BPC134W	c(LKKKLWLKKQ)	6.2-12.5	3.1-6.2	25-50	3	4
BPC136W	c(KKLLKWLKKQ)	6.2-12.5	3.1-6.2	6.2-12.5	1	2
BPC138W	c(KLKLKWLKKQ)	6.2-12.5	3.1-6.2	25-50	7	14

BPC140W	c(LKKLKWLKKQ)	6.2-12.5	3.1-6.2	12.5-25	31	37
BPC142W	c(KLLKKWLKKQ)	6.2-12.5	3.1-6.2	12.5-25	16	18
BPC144W	c(LKLKKWLKKQ)	3.1-6.2	1.6-3.1	12.5-25	16	21
BPC146W	c(LLKKKWLKKQ)	3.1-6.2	3.1-6.2	25-50	4	7
BPC148W	c(KKLLLWKKKQ)	12.5-25	12.5-25	>100	1	2
BPC150W	c(KLKLLWKKKQ)	12.5-25	6.2-12.5	>100	17	32
BPC152W	c(LKKLLWKKKQ)	6.2-12.5	6.2-12.5	75-100	1	3
BPC154W	c(KLLKLWKKKQ)	3.1-6.2	1.6-3.1	25-50	4	7
BPC156W	c(LKLKLWKKKQ)	6.2-12.5	3.1-6.2	>100	1	2
BPC158W	c(LLKKLWKKKQ)	12.5-25	1.6-3.1	12.5-25	10	14
BPC160W	c(KLLLKWKKKQ)	6.2-12.5	6.2-12.5	>100	3	6
BPC162W	c(LKLLKWKKKQ)	6.2-12.5	3.1-6.2	>100	57	56
BPC164W	c(LLKLKWKKKQ)	6.2-12.5	6.2-12.5	>100	6	6
BPC166W	c(LLLKKWKKKQ)	6.2-12.5	6.2-12.5	>100	1	1
BPC184W	c(KLLLKWKKLQ)	3.1-6.2	1.6-3.1	25-50	22	32
BPC186W	c(KKKLKWKKLQ)	12.5-25	6.2-12.5	>100	1	1
BPC188W	c(LLLKKWKKLQ)	6.2-12.5	12.5-25	50-75	33	48
BPC190W	c(LKKKKWKKLQ)	25-50	12.5-25	>100	1	3
BPC192W	c(LKLLKWKKLQ)	12.5-25	6.2-12.5	25-50	13	17
BPC194W	c(KKLKKWKKLQ)	12.5-25	6.2-12.5	12.5-25	3	5
BPC196W	c(LLKLKWKKLQ)	3.1-6.2	1.6-3.1	>100	2	3
BPC198W	c(KLKKKWKKLQ)	25-50	3.1-6.2	25-50	2	4
BPC200W	c(LLLLKWKKLQ)	>50	3.1-6.2	75-100	6	7
BPC202W	c(KKKKKWKKLQ)	25-50	12.5-25	>100	0	1

^a Percent hemolysis at 50 and 125 μ M.

^b *Pss*, *Pseudomonas syringae* pv. *syringae*; *Xav*, *Xanthomonas axonopodis* pv. *vesicatoria*; *Ea*, *Erwinia amylovora*