

Anabaenopeptins: What We Know So Far

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Table S1. Sequence composition of Anabaenopeptins. Amino acids are considered in L-configuration, unless otherwise defined.

Nomenclature		Position						References
		1	2	3	4	5	6	
Anabaenopeptin	679	-	D-Lys	Val	Hty	MeAla	Phe	[53]
Anabaenopeptin	731	Phe	D-Lys	Val	Leu	MeGly	AcSer	[81]
Anabaenopeptin	788	Val	D-Lys	Val	Trp	MeAla	Phe	[74]
Anabaenopeptin	803	Leu	D-Lys	Met	Leu	MeIle	MetO	[81]
Anabaenopeptin	807	Ile	D-Lys	Ile	Hty	MeAla	Phe	[14,34]
Anabaenopeptin	813	Phe	D-Lys	Val	Hty	MeGly	Phe	[34]
Anabaenopeptin	816	Leu	D-Lys	Leu	Trp	MeAla	Phe	[74]
Anabaenopeptin	828	Tyr	D-Lys	Val	Hph	MeAla	Phe	[75]
Anabaenopeptin	842	Tyr	D-Lys	Ile	Hph	MeAla	Phe	[75]
Anabaenopeptin	848	Leu	D-Lys	Ile	MeHph	MeAsn	Phe	[24]
Anabaenopeptin	849	Lys	D-Lys	Ile	Hph	MeAsn	Phe	[24]
Anabaenopeptin	852	MeHty	D-Lys	Val	Hty	MeAla	MeLeu	[84]
Anabaenopeptin	855	Phe	D-Lys	Ile	Hph	MeAla	Hty	[24]
Anabaenopeptin	856	MeHty	D-Lys	Val	Hph	MeAla	Phe	[84]
Anabaenopeptin	857	Phe	D-Lys	Val	Hty	MeAla	Hty	[24]
Anabaenopeptin	862	Leu	D-Lys	Ile	EtHph	MeAsn	Phe	[24]
Anabaenopeptin	863	Lys	D-Lys	Ile	MeHph	MeAsn	Phe	[24]
Anabaenopeptin	866	MeHty	D-Lys	Ile	Hty	MeAla	MeLeu	[84]
Anabaenopeptin	870	MeHty	D-Lys	Ile	Hph	MeAla	Phe	[84]
Anabaenopeptin	871	Phe	D-Lys	Ile	Hty	MeAla	Hty	[24]
Anabaenopeptin	872	MeHty	D-Lys	Val	Hty	MeAla	Phe	[84]
Anabaenopeptin	882	Phe	D-Lys	Ile	MeHph	MeAsn	Phe	[24]
Anabaenopeptin	886	MeHty	D-Lys	Ile	Hty	MeAla	Phe	[84]
Anabaenopeptin	891	Arg	D-Lys	Ile	MeHph	MeAsn	Phe	[24]
Anabaenopeptin	896	Phe	D-Lys	Ile	EtHph	MeAsn	Phe	[24]
Anabaenopeptin	899	Phe	D-Lys	Val	Hty	MeHty	Ile	[70]
Anabaenopeptin	900	MeHty	D-Lys	Ile	Hty	MeAla	MePhe	[84]
Anabaenopeptin	905	Arg	D-Lys	Ile	EtHph	MeAsn	Phe	[24]
Anabaenopeptin	915	Tyr	D-Lys	Val	Hty	MeHty	Ile	[62,63,76]
Anabaenopeptin	802A	Val	D-Lys	Ile	Trp	MeAla	Phe	[24,74]
Anabaenopeptin	802B	Val	D-Lys	Leu	Trp	MeAla	Phe	[74]
Anabaenopeptin	841A	Phe	D-Lys	Ile	Hty	MeAla	Phe	[14]
Anabaenopeptin	841B	Phe	D-Lys	Val	Hph	MeAla	Hty	[24]
Anabaenopeptin	877B	Lys	D-Lys	Ile	EtHph	MeAsn	Phe	[24]
Anabaenopeptin	877A	Arg	D-Lys	Ile	Hph	MeAsn	Phe	[24]
Anabaenopeptin	908A	Arg	D-Lys	Val	Hty	MeHty	Ile	[62,63,83]
Anabaenopeptin	908B	Arg	D-Lys	Val	Hty	MeHty	Leu	[53]
Anabaenopeptin	A	Tyr	D-Lys	Val	Hty	MeAla	Phe	[44]
Anabaenopeptin	B	Arg	D-Lys	Val	Hty	MeAla	Phe	[44,48]
Anabaenopeptin	C	Lys	D-Lys	Val	Hty	MeAla	Phe	[44]
Anabaenopeptin	D	Phe	D-Lys	Val	Hty	MeAla	Phe	[44]

Anabaenopeptin	E	Arg	D-Lys	Val	MeHty	MeAla	Phe	[38]
Anabaenopeptin	F	Arg	D-Lys	Ile	Hty	MeAla	Phe	[38]
Anabaenopeptin	G	Tyr	D-Lys	Ile	Hty	MeHty	Ile	[26]
Anabaenopeptin	H	Arg	D-Lys	Ile	Hty	MeHty	Ile	[26]
Anabaenopeptin	HU892	Arg	D-Lys	Val	Hph	MeHty	Ile	[61]
Anabaenopeptin	I	Ile	D-Lys	Val	Hty	MeAla	Leu	[42]
Anabaenopeptin	J	Ile	D-Lys	Val	Hty	MeAla	Phe	[42]
Anabaenopeptin	KB899	Tyr	D-Lys	Val	Hph	MeHty	Ile	[62]
Anabaenopeptin	KB906	Arg	D-Lys	Ile	Hph	MeHty	Ile	[62]
Anabaenopeptin	KT864	Harg	D-Lys	Ile	Hty	MeAla	Phe	[52]
Anabaenopeptin	KVJ811	Phe	D-Lys	Val	Hph	MeGly	Hph	[21]
Anabaenopeptin	KVJ827	Tyr	D-Lys	Val	Hph	MeGly	Hph	[21]
Anabaenopeptin	KVJ841	Tyr	D-Lys	Ile	Hph	MeGly	Hph	[21]
Anabaenopeptin	MM823	O-MeGlu	D-Lys	Val	Hty	MeAla	Phe	[22]
Anabaenopeptin	MM850	O-MeArg	D-Lys	Val	Hty	MeAla	Phe	[22]
Anabaenopeptin	MM913	Tyr	D-Lys	Ile	Hph	MeHty	Ile	[22]
Anabaenopeptin	NZ825	Phe	D-Lys	Ile	Hph	MeGly	Hph	[71]
Anabaenopeptin	NZ841	Phe	D-Lys	Ile	Hph	MeGly	Hty	[71,83]
Anabaenopeptin	NZ857	Phe	D-Lys	Ile	Hty	MeGly	Hty	[71]
Anabaenopeptin	SA1	Arg	D-Lys	Ile	PNV	Asn	Phe	[12]
Anabaenopeptin	SA10	Phe	D-Lys	Val	Hty	Gly	Cl-Hty	[12]
Anabaenopeptin	SA11	Phe	D-Lys	Ile	Hty	Gly	Cl-Hty	[12]
Anabaenopeptin	SA12	Phe	D-Lys	Val	Hty	Gly	Hty	[12]
Anabaenopeptin	SA13	Tyr	D-Lys	Val	Hty	Ser	Phe	[12]
Anabaenopeptin	SA2	Arg	D-Lys	Val	Hty	Ser	Phe	[12]
Anabaenopeptin	SA3	Lys	D-Lys	Ile	Hty	Ala	Phe	[12]
Anabaenopeptin	SA4	Lys	D-Lys	Ile	PNV	Asn	Phe	[12]
Anabaenopeptin	SA5	Ile	D-Lys	Val	PNV	Asn	Phe	[12]
Anabaenopeptin	SA6	Ile	D-Lys	Ile	Hph	Asn	Phe	[12]
Anabaenopeptin	SA7	Ile	D-Lys	Ile	PNV	Asn	Phe	[12]
Anabaenopeptin	SA8	Ile	D-Lys	Ile	PNL	Asn	Phe	[12]
Anabaenopeptin	SA9	Phe	D-Lys	Ile	Cl-Hty	Gly	Hph	[12]
Anabaenopeptin	T	Ile	D-Lys	Val	Hty	MeHty	Ile	[41]
Brunsvicamides	A	Ile	Lys	Val	Leu	MeTrp	Phe	[50]
Brunsvicamides	B	Ile	Lys	Ile	Leu	MeTrp	Phe	[50]
Brunsvicamides	C	Ile	Lys	Val	Leu	MeFormyl-kynurenine	Phe	[50]
Ferintoic Acid	A	Trp	D-Lys	Val	Hty	MeAla	Phe	[39]
Ferintoic Acid	B	Trp	D-Lys	Allo-Ile	Hty	MeAla	Phe	[39]
Ferintoic Acid	C	Trp	D-Lys	Met	Hty	MeAla	Phe	[78]
Ferintoic Acid	D	Trp	D-Lys	MetO	Hty	MeAla	Phe	[78]
Lyngbyaureidamide	A	D-Phe	D-Lys	Ile	Hty	MeAla	Hph	[47]
Lyngbyaureidamide	B	D-Phe	D-Lys	Ile	Hty	MeAla	Phe	[47]
Namalide	B	Ile	D-Lys	Ile	Hty	-	-	[73]
Namalide	C	Ile	D-Lys	Val	Hty	-	-	[73]
Nodulapeptin	807	Ile	D-Lys	Val	Hph	MeHph	Ser	[49]
Nodulapeptin	821	Ile	D-Lys	Ile	Hph	MeHph	Ser	[49]
Nodulapeptin	823	Ile	D-Lys	Val	Hph	MeHty	Ser	[49]
Nodulapeptin	839	Ile	D-Lys	Met	Hph	MeHph	Ser	[49]
Nodulapeptin	849	Ile	D-Lys	Val	Hph	MeHph	AcSer	[49]
Nodulapeptin	851	Ile	D-Lys	Val	Hph	MeHph	Met	[49]

Nodulapeptin	857	Phe	D-Lys	Val	Hph	MeHty	Ser	[34,49]
Nodulapeptin	863	Ile	D-Lys	Ile	Hph	MeHph	AcSer	[49]
Nodulapeptin	865	Ile	D-Lys	Val	Hph	MeHty	AcSer	[34]
Nodulapeptin	867	Ile	D-Lys	Val	Hph	MeHty	Met	[34]
Nodulapeptin	869	Phe	D-Lys	Val	Leu	MeHty	MetO	[34]
Nodulapeptin	871	Ile	D-Lys	MetO	Hph	MeHty	Ser	[14,73]
Nodulapeptin	879	Ile	D-Lys	Ile	Hph	MeHty	AcSer	[14]
Nodulapeptin	885	Phe	D-Lys	Val	Hph	MeHph	Met	[49]
Nodulapeptin	897	Ile	D-Lys	MetO	Hph	MeHph	AcSer	[14,73]
Nodulapeptin	901	Phe	D-Lys	Val	Hph	MeHty	Met	[14]
Nodulapeptin	917	Phe	D-Lys	Val	Hph	MeHty	MetO	[14,34]
Nodulapeptin	931	Ile	D-Lys	MetO	Hph	MeHty	MetO	[14,34]
Nodulapeptin	933	Phe	D-Lys	Val	Hty	MeHty	MetO	[14,34]
Nodulapeptin	855A	Ile	D-Lys	Met	Hph	MeHty	Ser	[14]
Nodulapeptin	855B	Ile	D-Lys	MetO	Hph	MeHph	Ser	[14]
Nodulapeptin	855C	Phe	D-Lys	Val	Val	MeHty	MetO	[34]
Nodulapeptin	881A	Ile	D-Lys	Met	Hph	MeHph	AcSer	[14,34]
Nodulapeptin	881B	Ile	D-Lys	Ile	Hph	MeHty	Met	[14,34]
Nodulapeptin	883A	Ile	D-Lys	Met	Hph	MeHph	Met	[14,85]
Nodulapeptin	883B	Phe	D-Lys	Val	Hph	MeHph	AcSer	[14]
Nodulapeptin	883C	Ile	D-Lys	Val	Hph	MeHty	MetO	[34]
Nodulapeptin	899A	Ile	D-Lys	Met	Hph	MeHty	Met	[14,34]
Nodulapeptin	899B	Phe	D-Lys	Val	Hph	MeHty	AcSer	[14,34]
Nodulapeptin	899C	Ile	D-Lys	Val	Hty	MeHty	MetO	[34]
Nodulapeptin	915A	Ile	D-Lys	MetO	Hph	MeHty	Met	[14,73]
Nodulapeptin	915B	Phe	D-Lys	Val	Hty	MeHty	AcSer	[14]
Nodulapeptin	A	Ile	D-Lys	MetO2	Hph	MeHty	AcSer	[48]
Nodulapeptin	B	Ile	D-Lys	MetO	Hph	MeHty	AcSer	[14,48]
Nodulapeptin	C	Ile	D-Lys	Met	Hph	MeHty	AcSer	[14]
Oscillamide	B	Arg	D-Lys	Met	Hty	MeAla	Phe	[25]
Oscillamide	Y	Tyr	D-Lys	Ile	Hty	MeAla	Phe	[36]
Pompanopeptin	B	Ile	Lys	Val	Hty	MeAhpha	Hty	[23]
Schizopeptin	791	Ile	D-Lys	Ile	Hph	MeAla	Phe	[46]

AcSer: Acetyl Serine; Ala: Alanine; Allo-Ile: Allo-isoleucine; Arg: Arginine; Asn: Asparagine; Cl-Hty: 2-Chloro-Homotyrosine; D-Phe: D-Phenylalanine; EtHph: N-Ethyl-Homophenylalanine; Gly: Glycine; Harg: Homoarginine; Hph: Homophenylalanine; Hty: Homotyrosine; Ile: Isoleucine; Leu: Leucine; Lys: Lysine; MeAhpha: N-Methyl-2-amino-6-(40-hydroxyphenyl) hexanoic acid; MeAla: Methyl-Alanine; MeAsn: Methyl-Asparagine; MeFormyl-kynurenine: N-Methyl-N'-formyl-D-kynurenine; MeGly: Methyl Glycine; MeHph: Methyl-Homophenylalanine; MeHty: Methyl-Tyrosine; MeIle: Methyl-Isoleucine; MeLeu: Methyl-Leucine; MePhe: Methyl-Phenylalanine; Met: Methionine; MetO: Methionine sulfoxide; MetO2: Methionine sulfone; MeTrp: Methyl-Tryptophan; O-MeArg: O-Methyl-Arginine; O-MeGlu: Methoxy-Glutamate; Phe: Phenylalanine; PNL: 6-Phenylnorleucine; PNV: 5-Phenylnorvaline; Ser: Serine; Trp: Tryptophan; Tyr: Tyrosine and Val: Valine.