

Table S1. Peptides with in vitro angiotensin-converting enzyme (ACE) inhibitory activity identified in commercial fermented dairy products.

Peptide	Fragment	FDF 1	IC ₅₀ μmol/L
IW	α-lactalbumin f(59-60)	Yogurt	0,7
RYLGY	αS1-casein f(90-94)	Cheese	0,71
PYVRYL	αS2-casein f(202-207)	Kefir	2,4
LHLPLP	β-casein A2 f(133-138)	Cheese, yogurt	4
FALPQYLK	αS2-casein f(174-181)	Kefir	4,3
IPP	β-casein f(74-76), κ-casein f(108-110)	Fermented milk, cheese, yogurt	5
FFVAP	αS1-casein f(23-27)	Cheese	6
AYFYPEL	αS1-casein f(143-149)	Cheese	6,58
YQEPVL	β-casein f(193-198)	Yogurt	8
VPP	β-casein f(84-86)	Fermented milk, cheese, yogurt	9
WL	α-lactalbumin f(104-105) f(118-119)	Yogurt	10
KALPMHIRLAF	β-lactoglobulin caprine f(141-151)	Cheese	11
RPKHPIKHQ	αS1-casein f(1-9)	Cheese	13
EKDERF	κ-casein f(12-17)	Cheese	14
AVPYPQR	β-casein f(177-183)	Kefir	15
YFPFGPIPN	β-casein A2 f(60-68)	Kefir, cheese	15
LW	αS1-casein f(198-199)	Cheese, yogurt	15
VLPVPQK	β-casein A2 f(170-176)	Yogurt	15
LVYFPFGPIPNLSLQ	β-casein A2 f(58-72)	Cheese, yogurt	18
HLPLP	β-casein A2 f(134-138)	Cheese	21
LLYQEPVLGPGVPGFPPIIV	β-casein f(191-209)	Cheese	21
VRYL	αS2-casein f(204-207)	Cheese	24
LVYPFTGPIPN	β-casein caprine f(58-68)	Kefir	28
RPKHPI	αS1-casein f(1-6)	Cheese	40
LY	β-casein f(192-193), αS2-casein f(99-100)	Yogurt	44
LPQNILP	β-casein caprine f(70-76)	Cheese	46
VR	Various fragments in β-casein, αS2-casein, κ-casein, β-lactoglobulin Various fragments in αS1-casein, αS2-casein, κ-casein	Cheese	53
RY		Fermented milk	54
KKYNVPQL	αS1-casein caprine f(102-109)	Cheese	77
WLAHK	α-lactalbumin f(104-108)	Yogurt	77
KKYKVPQL	αS1-casein f(102-109)	Cheese	77
LLF	β-lactoglobulin f(103-105)	Cheese, yogurt	80
AVPYP	β-casein f(177-181)	Cheese	80

ENLLRF	α S1-casein f(18-23)	Kefir	82
MPFPKYVPVEP	β -casein A2 f(109-118)	Kefir	83
SQSKVLVPVQ	β -casein A2 f(166-175)	Kefir	92
RPK	α S1-casein f(1-3)	Cheese	92
YQEPVLGPPVRGPFPIIV	β -casein f(193-209)	Kefir, cheese, yogurt	101
DKIHP	β -casein f(47-51)	Cheese	113
VRGP	β -casein f(201-204)	Cheese	121
YL	Various fragments in α S1-casein, α S2-casein, β -lactoglobulin	Cheese, yogurt	122
KIHPFAQAQ	β -casein caprine f(48-56)	Kefir	133
FPEVFGK	α S1-casein f(28-34)	Cheese	140
PRKEKLCTTS	α S2-casein caprine f(31-40)	Cheese	142
PFP	Various fragments in β -casein, α S1-casein	Cheese	144
NIPPLTQTPV	β -casein f(73-82)	Fermented milk, kefir, yogurt	173
KFAWPQ	α S2-casein caprine f(174-179)	Kefir	177
FP	Various fragments in β -casein, α S1-casein, α S2-casein	Cheese, yogurt	205
IPY	α S2-casein f(201-203)	Cheese	206
RDMPIQAF	β -casein f(183-190)	Kefir, cheese, yogurt	209
ALNEINQFY	α S2-casein f(81-89)	Yogurt	219
GVPKVKETMVPKH	β -casein caprine f(94-106)	Kefir	223
RYLG	α S1-casein f(90-93)	Cheese	225
VPSELYL	α S1-casein f(86-92)	Cheese	233
DKIHPF	β -casein f(47-52)	Kefir, cheese, yogurt	257
AYFYPE	α S1-casein f(143-148)	Cheese, yogurt	261
LNVPGEIVE	β -casein f(6-14)	Yogurt	300
YQEPVLGPPVR	β -casein f(193-202)	Cheese	300
TGPIPN	β -casein caprine f(63-68)	Cheese	316
VYPFPGPIPN	β -casein f(59-68)	Kefir, yogurt	325
LF	Various fragments in α S1-casein, β - lactoglobulin, α -lactalbumin	Cheese, yogurt	349
VAPFPEVF	α S1-casein f(25-32)	Kefir, yogurt	363
GVPKVKETMVPK	β -casein caprine f(94-105)	Kefir	376
TKVIP	α S2-casein f(198-202)	Yogurt	400
YGL	κ -casein f(38-40) α -lactalbumin f(50-52)	Cheese, yogurt	409
YQEPVLGPPVRG	β -casein f(193-203)	Cheese	412
GPFPILV	β -casein caprine f(201-207)	Kefir	424
PLP	β -casein A2 f(136-138)	Cheese	430
IPAIN	κ -casein caprine f(119-123)	Kefir	433
HPFAQ	β -casein f(50-54)	Kefir	465

FVAPFPEV	α S1-casein f(24-31)	Kefir	476
ALPMH	β -lactoglobulin f(142-146)	Yogurt	521
LAMA	β -lactoglobulin f(22-25)	Cheese	556
EMPFPK	β -casein f(108-113)	Yogurt	566
AMKPW	α S2-casein f(189-193)	Cheese	580
VRGPFP	β -casein f(201-206)	Cheese	592
QP	Various fragments in β -casein, α S2-casein, κ -casein	Cheese	599
AMKPWQPK	α S2-casein f(189-197)	Kefir	600
VRGPFIIV	β -casein f(201-209)	Yogurt	600
QEPVLGPVRGPFIIV	β -casein f(194-209)	Cheese, yogurt	600
LAHKAL	α -lactalbumin f(105-110)	Cheese	621
FVAPFPEVFG	α S1-casein f(24-33)	Kefir	650
IR	κ -casein f(9-10)	Cheese	696
VPSEY	α S1-casein f(86-91)	Cheese	706
PKHP	α S1-casein f(2-5)	Cheese	709
KKYNVPQ	α S1-casein caprine f(102-108)	Cheese	717
KKYKVPQ	α S1-casein f(102-108)	Cheese	717
YP	Various fragments in β -casein, α S1-casein, κ -casein	Cheese, yogurt	720
LPLP	β -casein A2 f(135-138)	Yogurt	720
IGSENSEKTTMP	α S1-casein f(186-197)	Kefir	773
KDERF	κ -casein f(13-17)	Cheese	848
KVLPVPQ	β -casein A2 f(169-175)	Yogurt	1000
GPVRGPFIIV	β -casein f(199-209)	Kefir	n.a.
YPVEPFTE	β -casein A2 f(114-121)	Kefir	n.a.
FF	α S1-casein f(23-24)	Yogurt	n.a.
EW	κ -casein f(17-18)	Yogurt	n.a.
LPQ	α -lactalbumin f(25-26)	Yogurt	n.a.
LVR	Various fragments in β -casein, α S1-casein, α S2-casein	Yogurt	n.a.
PLW	β -lactoglobulin f(122-124)	Yogurt	n.a.
FVAP	α S1-casein f(197-199)	Yogurt	n.a.
IHPF	α S1-casein f(24-27)	Yogurt	n.a.
VTSTAV	β -casein f(49-52)	Yogurt	n.a.
AQTQSL	κ -casein f(164-169)	Yogurt	n.a.
VLPVPQ	β -casein f(53-58)	Yogurt	n.a.
HLPLPL	β -casein A2 f(170-175)	Yogurt	n.a.
KFALPQ	β -casein A2 f(134-139)	Yogurt	n.a.
TTMPLW	α S2-casein f(173-178)	Yogurt	n.a.
RELEEL	α S1-casein f(194-199)	Yogurt	n.a.
VPPFLQP	β -casein f(1-6)	Cheese, yogurt	n.a.
NVPGEIVE	β -casein f(84-90)	Yogurt	n.a.
RPKHPIK	β -casein f(7-14)	Cheese, yogurt	n.a.
KTIMPLW	α S1-casein f(1-7)	Cheese, yogurt	n.a.
RGPFPIIV	α S1-casein f(193-199)	Yogurt	n.a.
	β -casein f(202-209)	Yogurt	n.a.

GPVRGP	β -casein f(199-204)	Yogurt	n.a.
TPVVVPFLQP	β -casein f(80-90)	Cheese, yogurt	n.a.
LTQTPVVVPF	β -casein f(77-87)	Yogurt	n.a.
RPKHPIKHQGLPQ	α S1-casein f(1-13)	Cheese, yogurt	n.a.
NIPPLTQTPVVVPFLQP	β -casein f(73-90)	Yogurt	n.a.
YQEPVLGPVRGPFPII	β -casein f(193-208)	Yogurt	n.a.
MPFPKYPVQP	β -casein f(109-118)	Cheese	n.a.
VVAPFPE	α S1-casein caprine f(24-30)	Cheese	n.a.
FPE	α S1-casein f(28-30)	Cheese	n.a.
TQPKTNAIPY	α S2-casein caprine f(195-204)	Cheese	n.a.
VPKVKE	β -casein caprine f(95-100)	Cheese	n.a.
VPKVKET	β -casein caprine f(95-101)	Cheese	n.a.
PP	Various fragments in β -casein, κ -casein	Cheese	n.a.
HPIK	α S1-casein f(4-7)	Cheese	n.a.
HQGL	α S1-casein f(8-11)	Cheese	n.a.
GPVR	β -casein f(199-202)	Cheese	n.a.
NINE	α S1-casein caprine f(36-39)	Cheese	n.a.
PSE	κ -casein f(156-158)	Cheese	n.a.
ERYL	α S1-casein f(89-92)	Cheese	n.a.
PQL	α S1-casein f(107-109)	Cheese	n.a.
EIVPK	α S1-casein caprine f(110-114)	Cheese	n.a.
AWY	α S1-casein f(163-165)	Cheese	n.a.
PK	Various fragments in β -casein, α S1-casein, α S2-casein, κ -casein	Cheese	n.a.
PQ	Various fragments in β -casein, α S1-casein, α S2-casein	Cheese	n.a.
PQEVL	α S1-casein f(12-16)	Cheese	n.a.
EVLN	α S1-casein f(14-17)	Cheese	n.a.
NENLL	α S1-casein f(17-21)	Cheese	n.a.
ENLL	α S1-casein f(18-21)	Cheese	n.a.
NLLRF	α S1-casein f(19-23)	Cheese	n.a.
PLTQTP	β -casein f(76-81)	Cheese	n.a.
VVVPP	β -casein f(82-86)	Cheese	n.a.
GVPK	β -casein caprine f(94-97)	Cheese	n.a.
TDVEK	β -casein caprine f(128-132)	Cheese	n.a.
EVVR	α S2-casein f(42-45)	Cheese	n.a.
REL	β -casein f(1-3) α -lactalbumin f(10-12)	Cheese	n.a.
FPGPIH	β -casein f(62-67)	Cheese	n.a.
PGPIH	β -casein f(61-67)	Cheese	n.a.
PVEP	β -casein A2 f(115-118)	Cheese	n.a.
PVEPF	β -casein A2 f(115-119)	Cheese	n.a.
FVAPFPEVF	α S1-casein f(24-32)	Cheese	n.a.
KKYKVPQLE	α S1-casein f(102-110)	Cheese	n.a.
ARHPPH	κ -casein f(96-102)	Cheese	n.a.

4 ¹ Peptides are listed on the basis of their inhibitory potency; IC₅₀ is defined as the concentration of peptides
5 (μmol/L) required to inhibit 50% of the enzymatic activity. n.a. means that the IC₅₀ value was not available.
6 Data were from Milk Bioactive Peptides Database.