

Supplementary Table 1. Mean collision cross-sections ($\text{\AA}^2$) of Defb14, Defb14-1Cys^V and Defb14-0Cys under buffered and denaturing conditions.

	Buffered conditions ^a			Denaturing conditions ^b		
Charge state	Defb14 ^c	Defb14-1Cys ^V	Defb14-0Cys	Defb14	Defb14-1Cys ^V	Defb14-0Cys
[M+3H] ³⁺	-	^d	659 ± 3	^d	^d	^d
[M+4H] ⁴⁺	-	740 ± 12	798 ± 9	709	^d	^d
[M+5H] ⁵⁺	-	888 ± 23	1008 ± 7	751	916	^d
[M+6H] ⁶⁺	-	986 ± 19	1076 ± 15	881	962	979
[M+7H] ⁷⁺	-	1053 ± 15	1086 ± 11	1008	1018	1070
[M+8H] ⁸⁺	-	1125 ± 15	1116 ± 7	^d	1105	1170
[M+9H] ⁹⁺	-	1216 ± 9	1185 ± 2	^d	^d	^d

^a Errors are quoted as the standard error of the mean

^b Taken from reference (20) in main text: B. J. McCullough, J. Kalapothakis, H. Eastwood, P. Kemper, D. MacMillan, K. Taylor, J. Dorin and P. E. Barran, Anal. Chem., 2008, 80, 6336-6344.

^c Not determined

^d Not observed by IM-MS