

Table S2. Proteoform space

	Modifications	Possible Proteoforms	Subtotal
0 Methyl-Eq	unmodified	1	1
1 Methyl-Eq	me1	3	3
2 Methyl-Eq	me1 + me1	3	6
	me2	3	
3 Methyl-Eq	me1 + me1 + me1	1	10
	me2 + me1	6	
	me3	3	
4 Methyl-Eq	me1 + me1 + me2	3	12
	me2 + me2	3	
	me3 + me1	6	
5 Methyl-Eq	me1 + me1 + me3	3	12
	me1 + me2 + me2	3	
	me2 + me3	6	
6 Methyl-Eq	me1 + me2 + me3	6	10
	me2 + me2 + me2	1	
	me3 + me3	3	
7 Methyl-Eq	me1 + me3 + me3	3	6
	me2 + me2 + me3	3	
8 Methyl-Eq	me2 + me3 + me3	3	3
9 Methyl-Eq	me3 + me3 + me3	3	1
Total			64

Theoretical combinations of methylations when there is three possible lysine methylation sites.