

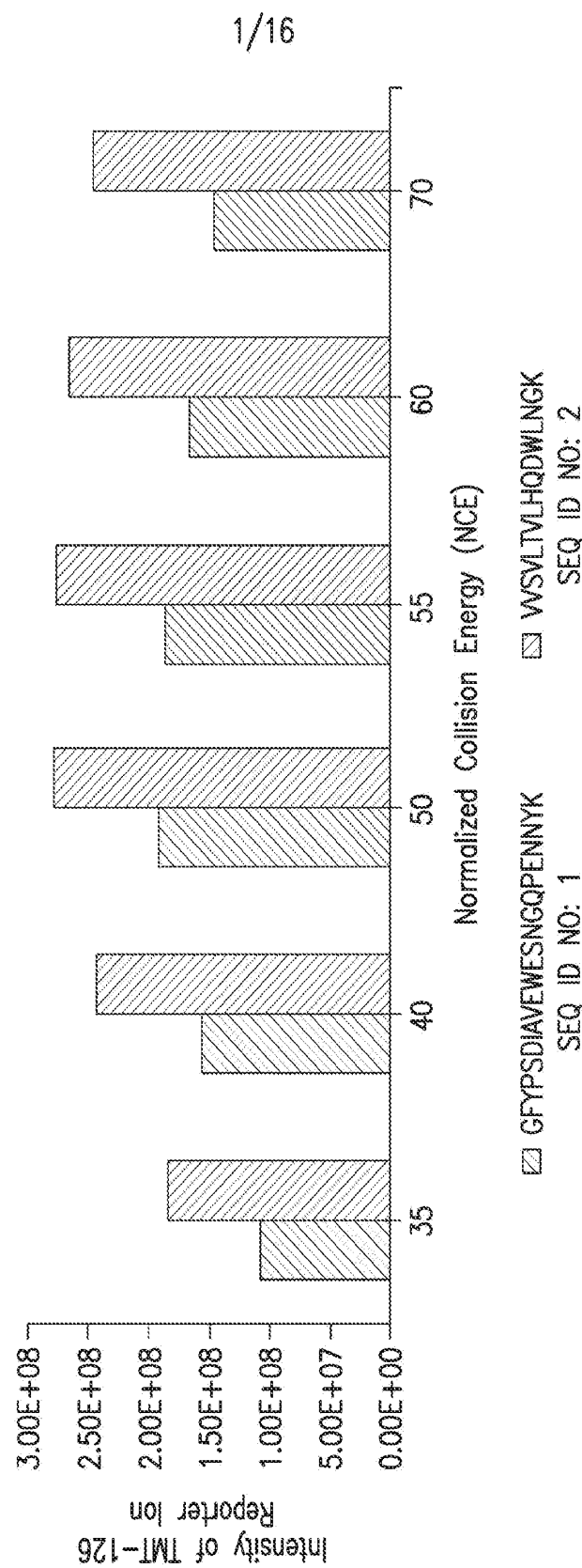
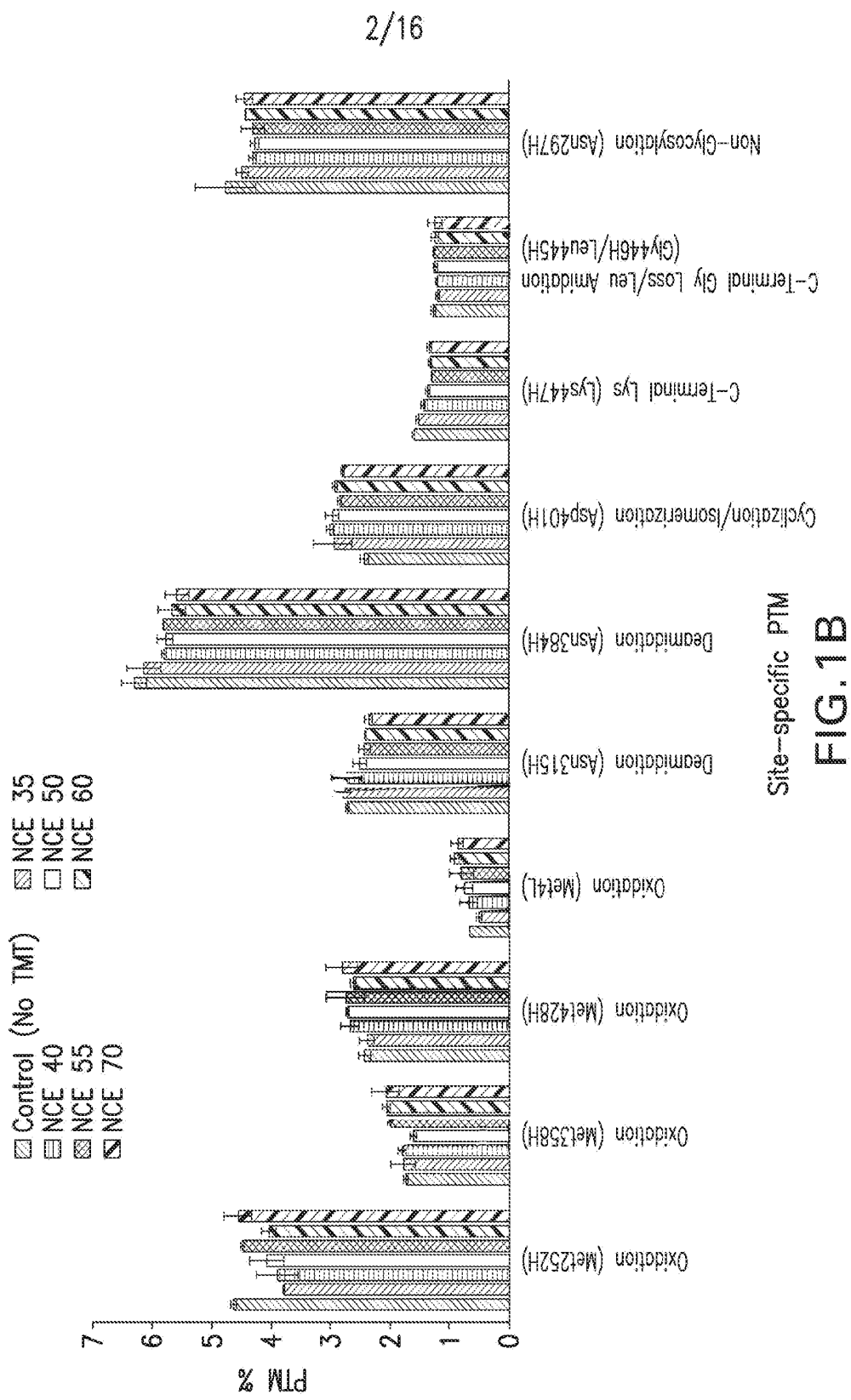


FIG.1A



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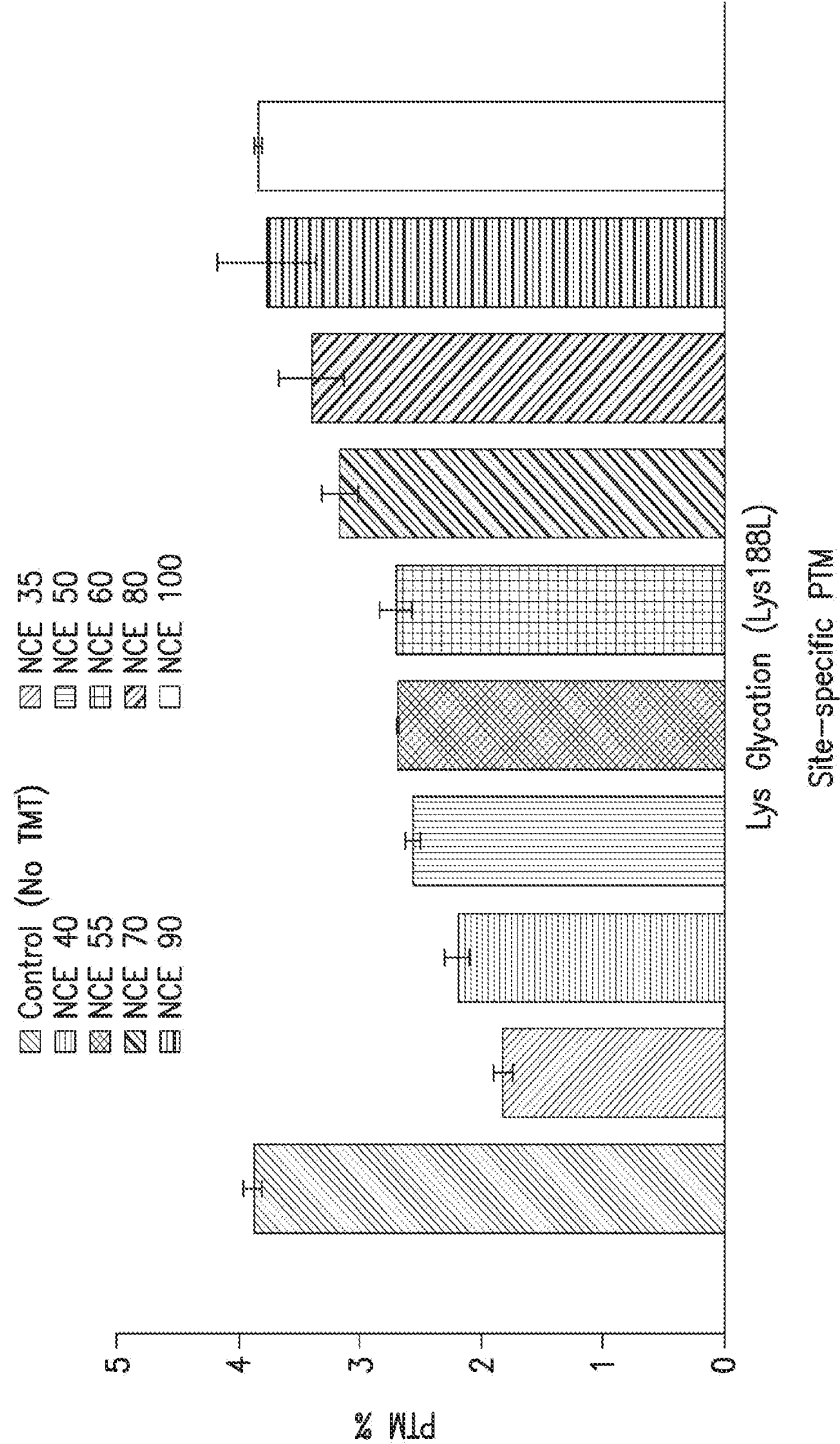


FIG.2A

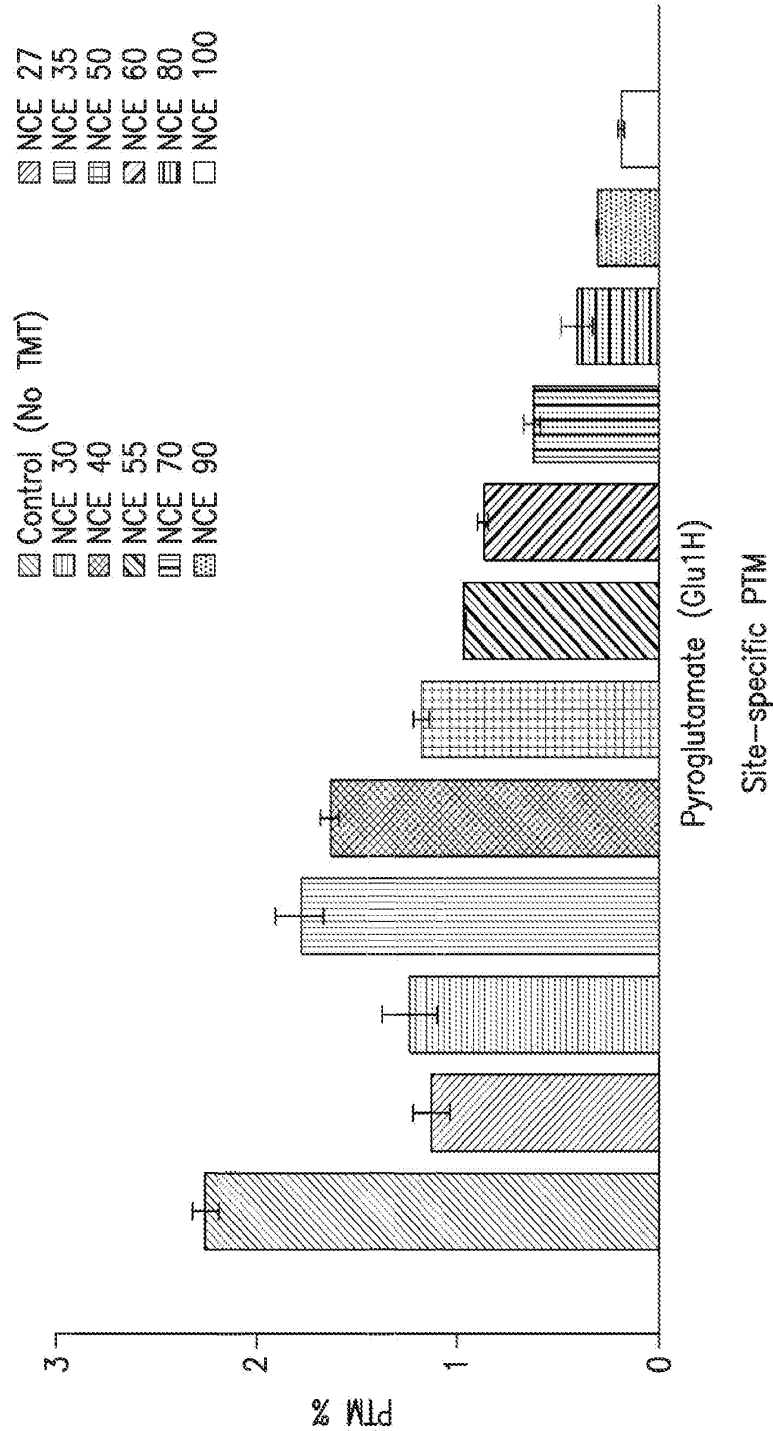


FIG. 2B

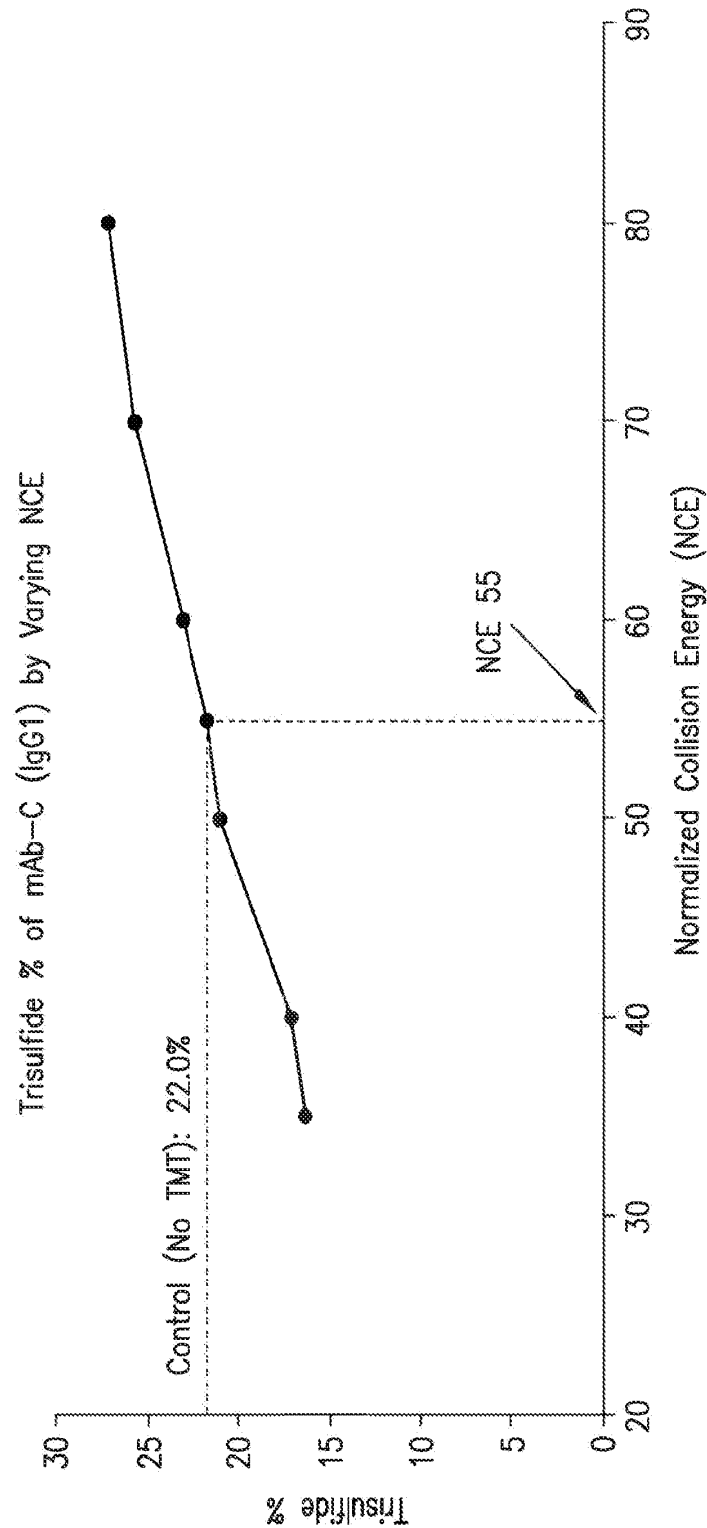


FIG.3A

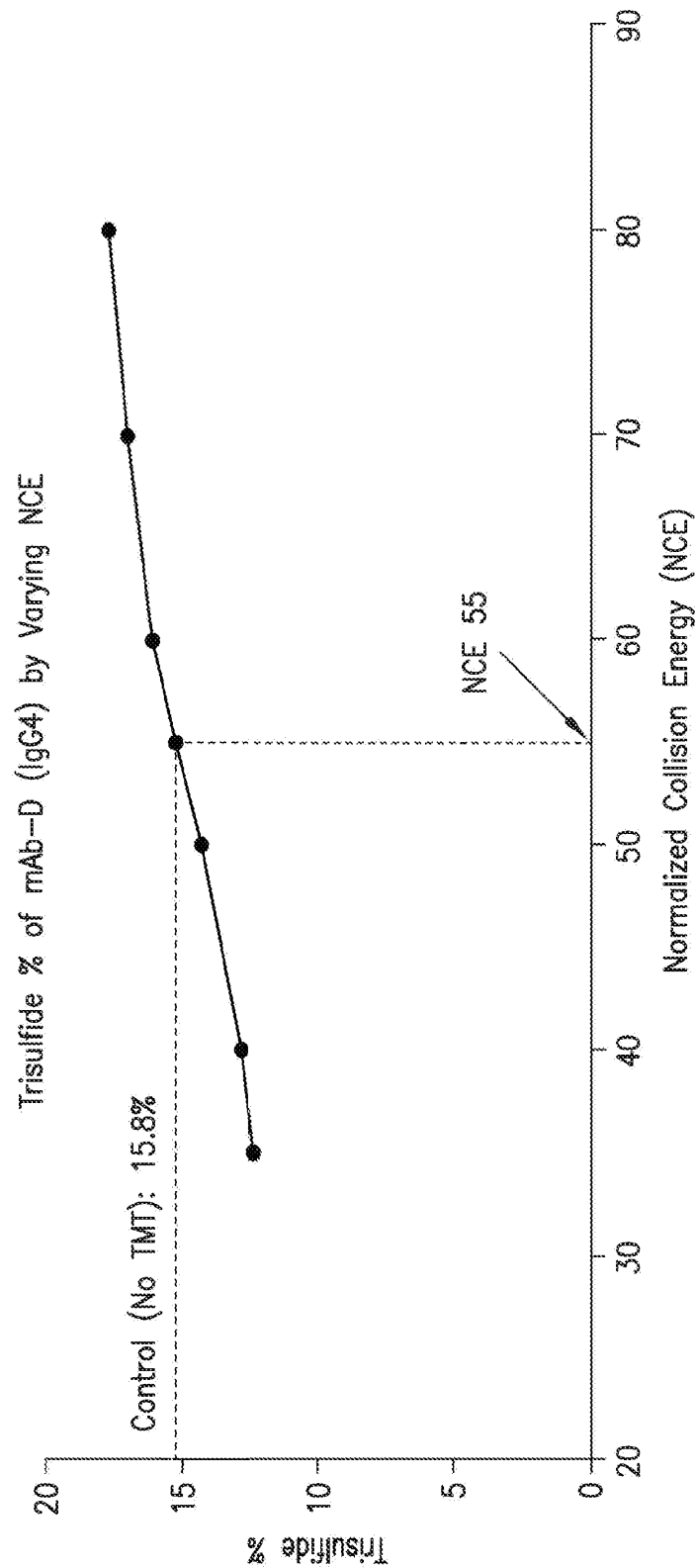


FIG.3B

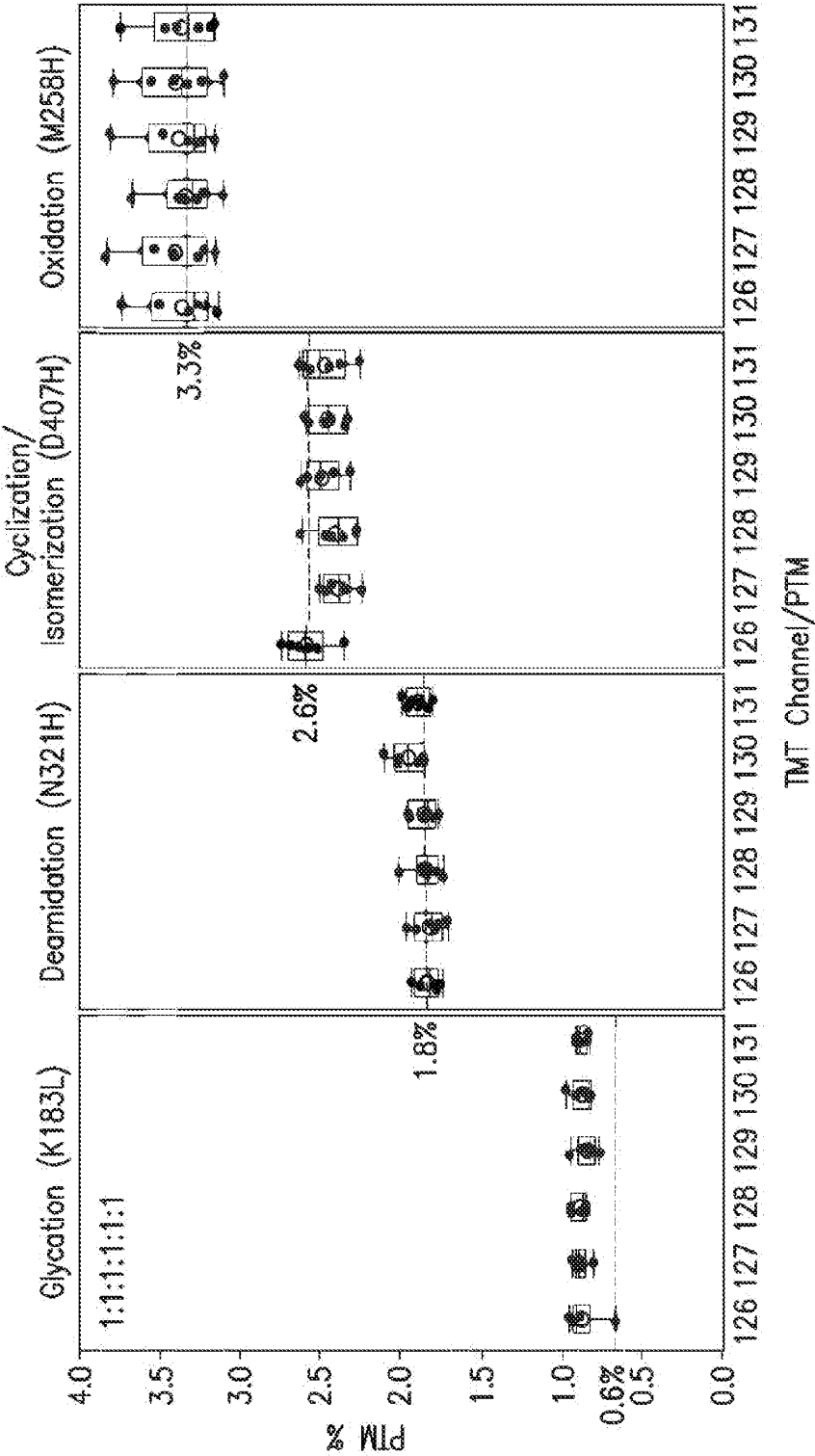


FIG. 4A

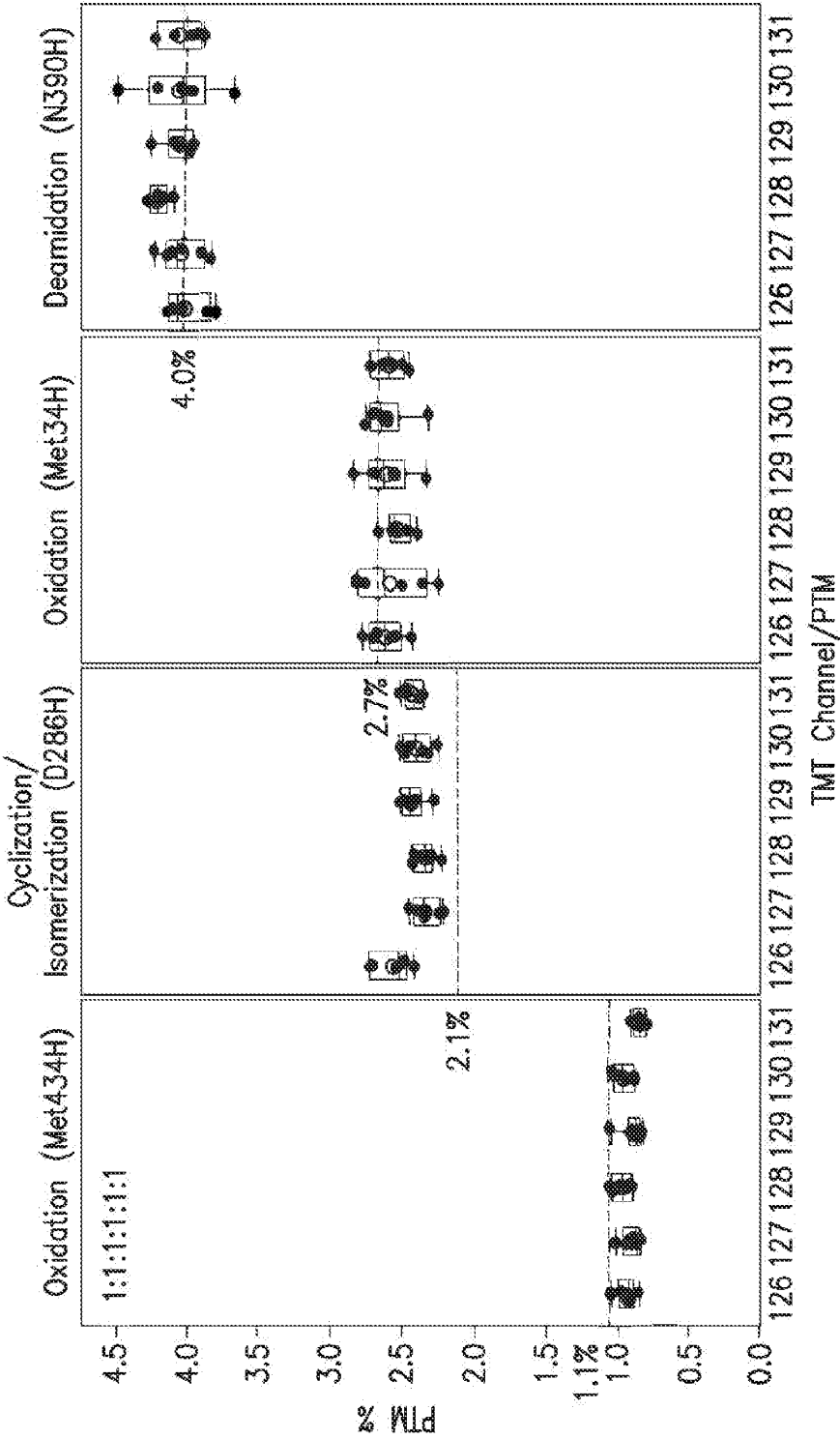


FIG. 4B

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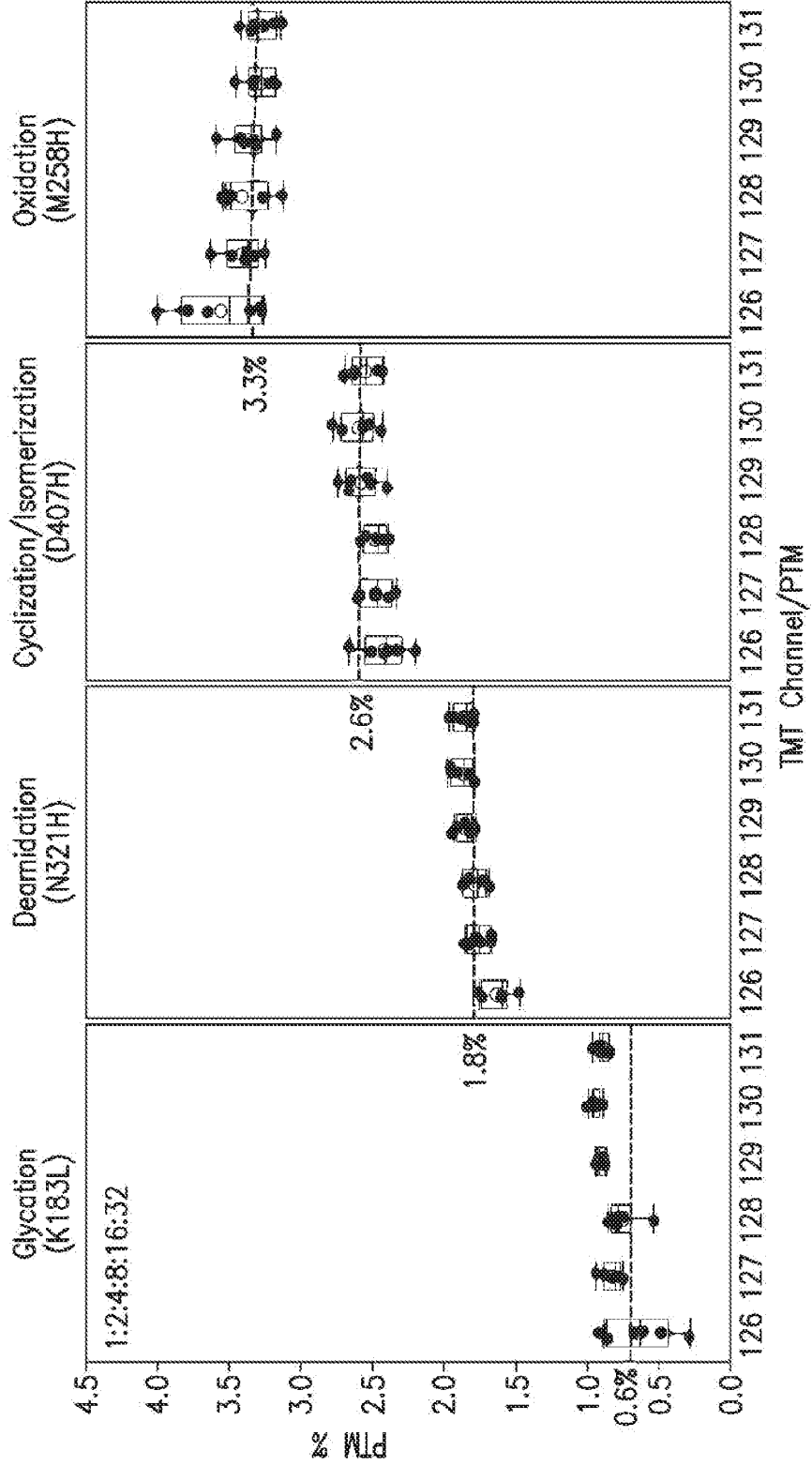
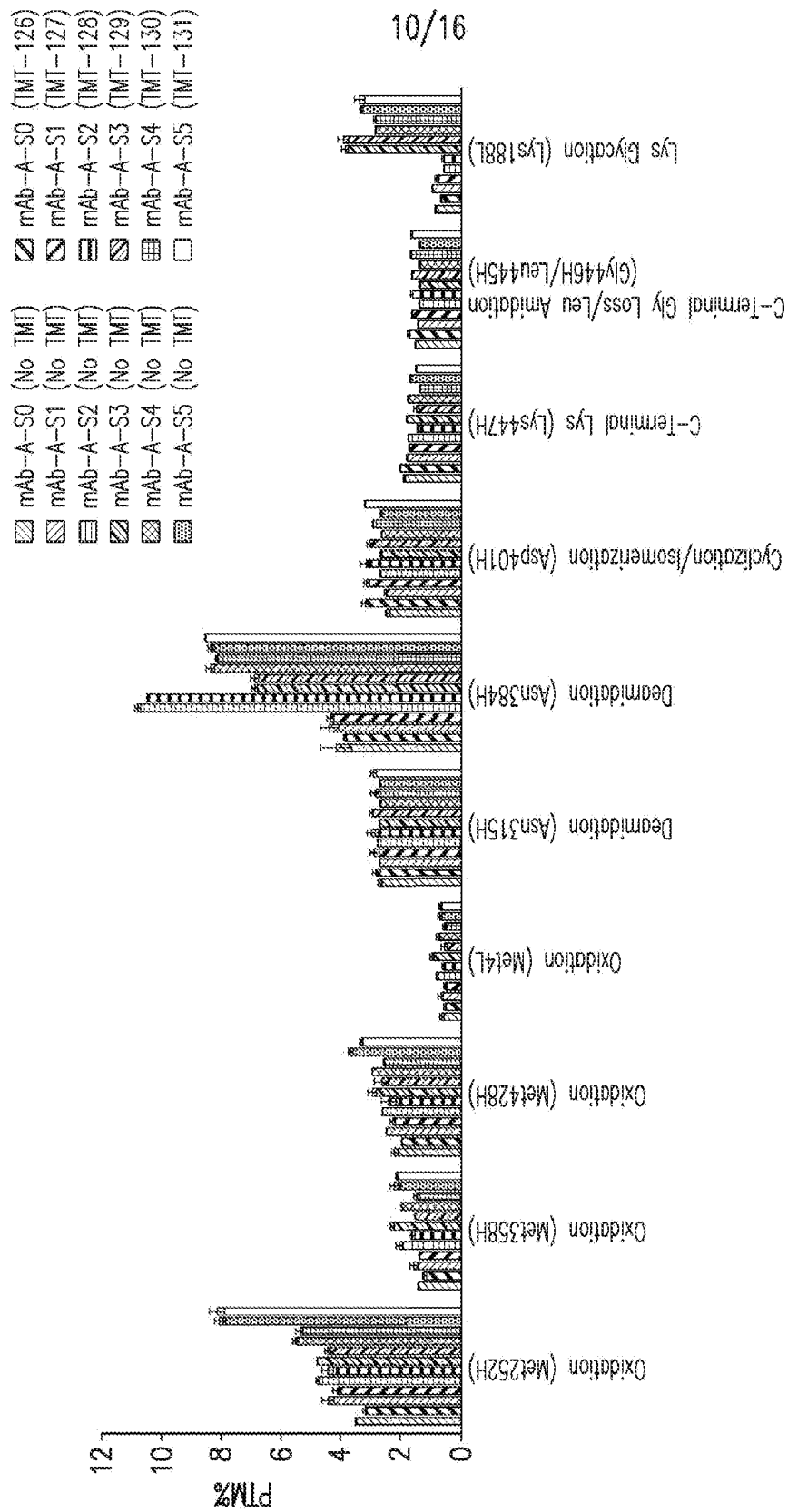


FIG.5



Site-specific PTM

FIG.6

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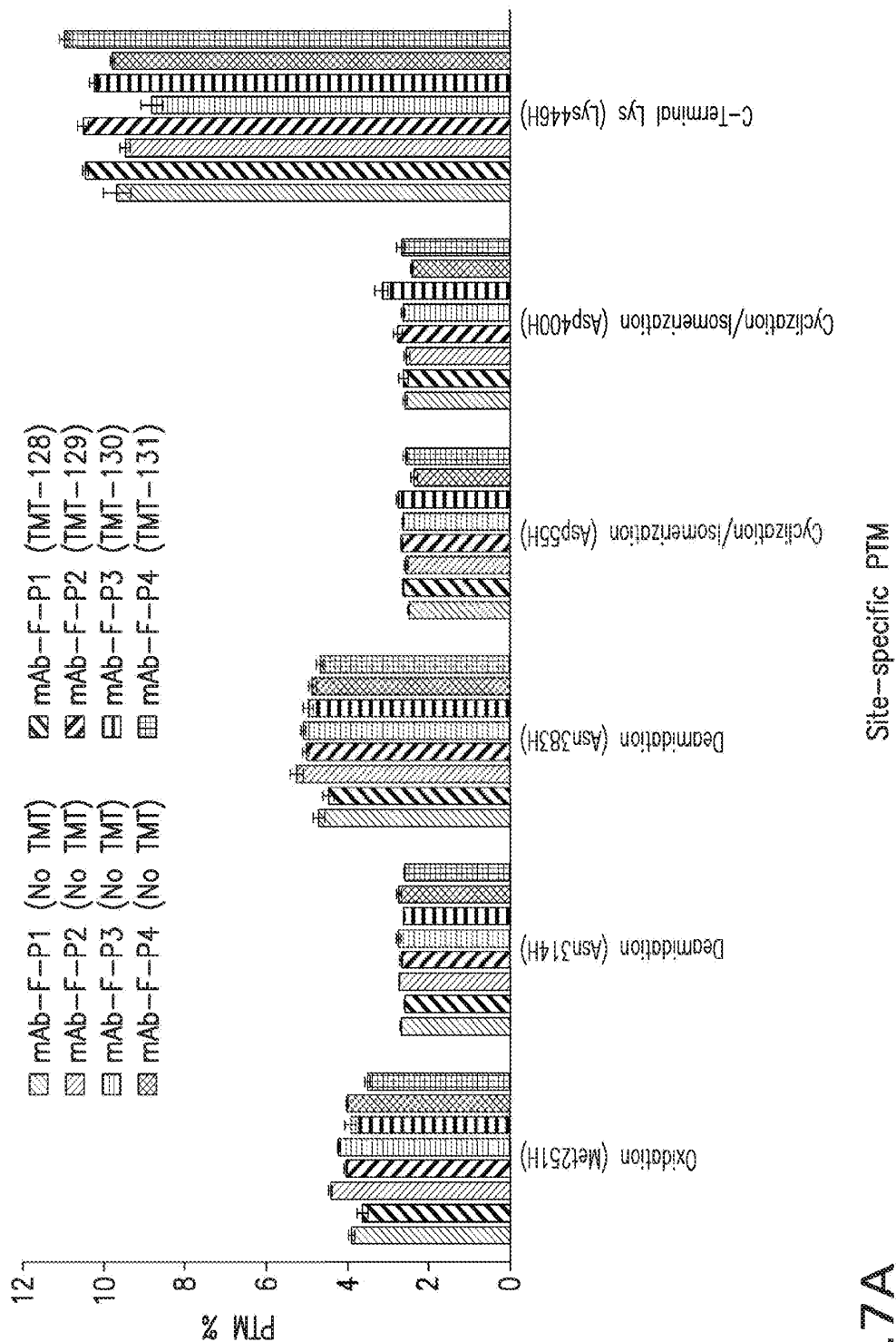


FIG. 7A

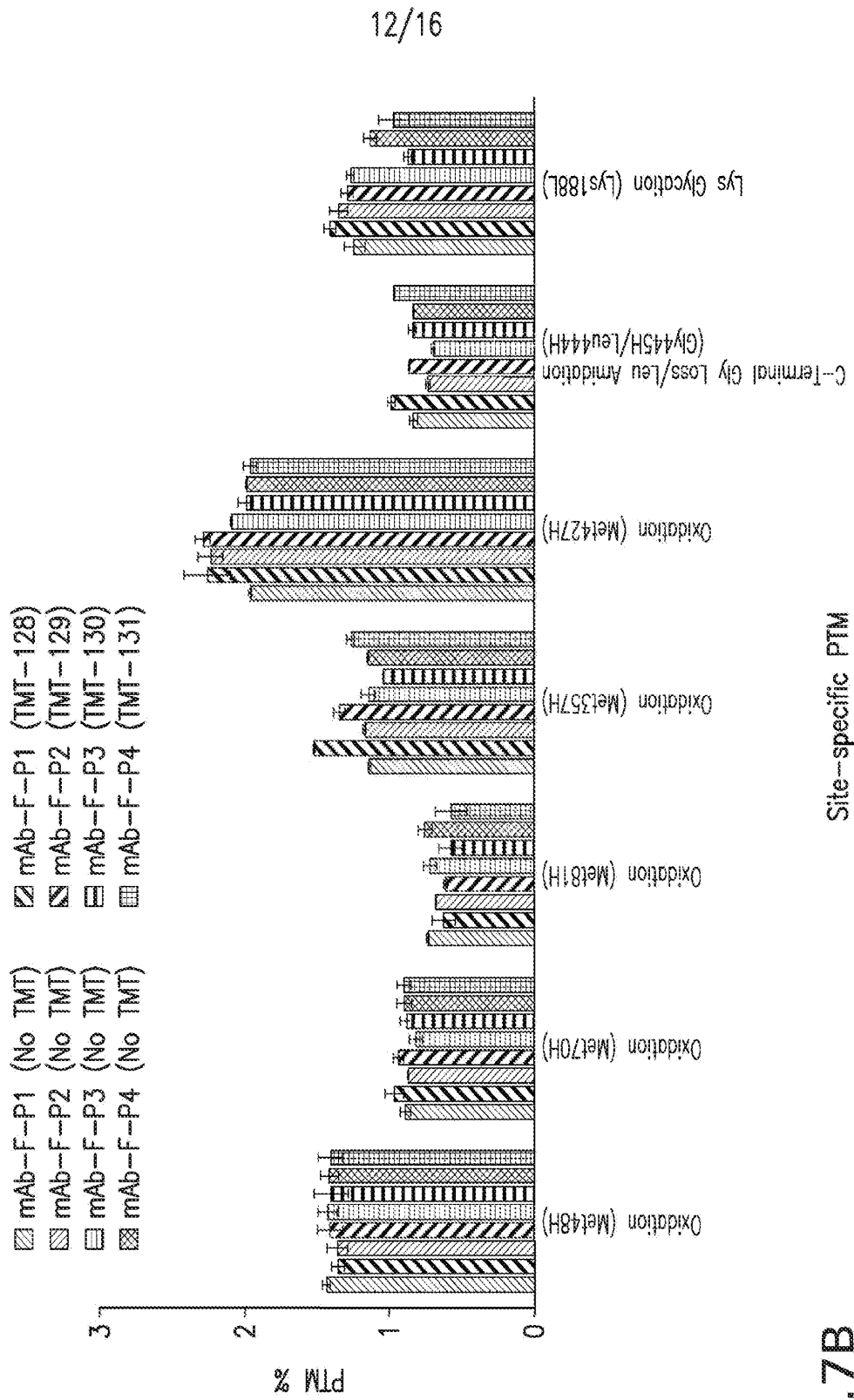


FIG.7B

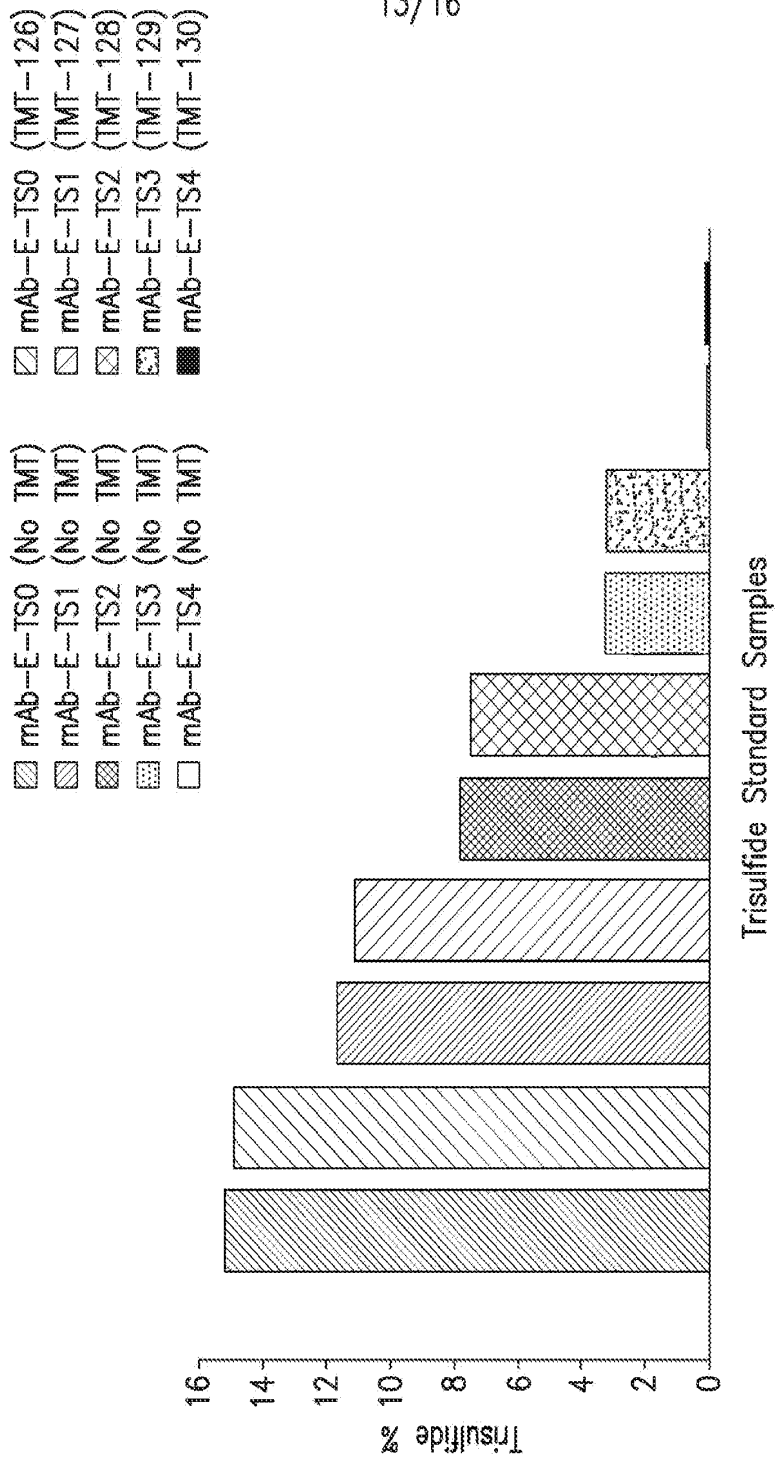


FIG.8

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Peptide	# of TMT	TMT-labeled Species	Percentage of TMT-labeled Species (%)				
			Control (No inhibitor)	BOC-Y	HPAA	HBA	PABA
WQGGNVFSCSVMEALNHNTQK (SEQ ID NO: 3)	1	NH ₂ -WQGGNVFSCSVMEALNHNTQK	0.2	1.4	0.1	0.1	0.3
	2	NH ₂ -WQGGNVFSCSVMEALNHNTQK	0.0	3.5	0.0	0.1	0.9
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	1.0	31.8	8.2	16.3	15.3
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	0.9	0.5	1.0	1.3	0.7
	3	NH ₂ -WQGGNVFSCSVMEALNHNTQK	3.2	1.2	3.2	3.7	2.0
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	1.8	0.9	2.3	2.9	1.7
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	4.2	56.0	44.2	49.9	60.9
	4	NH ₂ -WQGGNVFSCSVMEALNHNTQK	5.1	0.0	0.9	0.6	0.2
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	5.5	0.9	6.3	4.5	3.4
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	17.5	2.1	16.9	11.4	8.2
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	5.2	1.5	9.7	6.4	5.1
TTPPVLDSDGSFFLYSK (SEQ ID NO: 4)	5	NH ₂ -WQGGNVFSCSVMEALNHNTQK	3.2	0.0	0.1	0.0	0.0
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	11.5	0.0	1.6	0.7	0.3
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	6.1	0.0	1.4	0.5	0.3
	6	NH ₂ -WQGGNVFSCSVMEALNHNTQK	22.0	0.0	3.8	1.5	0.8
		NH ₂ -WQGGNVFSCSVMEALNHNTQK	12.6	0.0	0.3	0.1	0.0
		NH ₂ -TTPPVLDSDGSFFLYSK	0.0	5.2	0.0	0.3	1.3
	1	NH ₂ -TTPPVLDSDGSFFLYSK	0.0	1.5	0.3	0.8	0.5
	2	NH ₂ -TTPPVLDSDGSFFLYSK	0.8	1.1	1.1	1.1	1.1
		NH ₂ -TTPPVLDSDGSFFLYSK	73.0	90.5	91.7	93.5	93.3
	3	NH ₂ -TTPPVLDSDGSFFLYSK	26.1	1.5	6.9	4.3	3.8

FIG.9

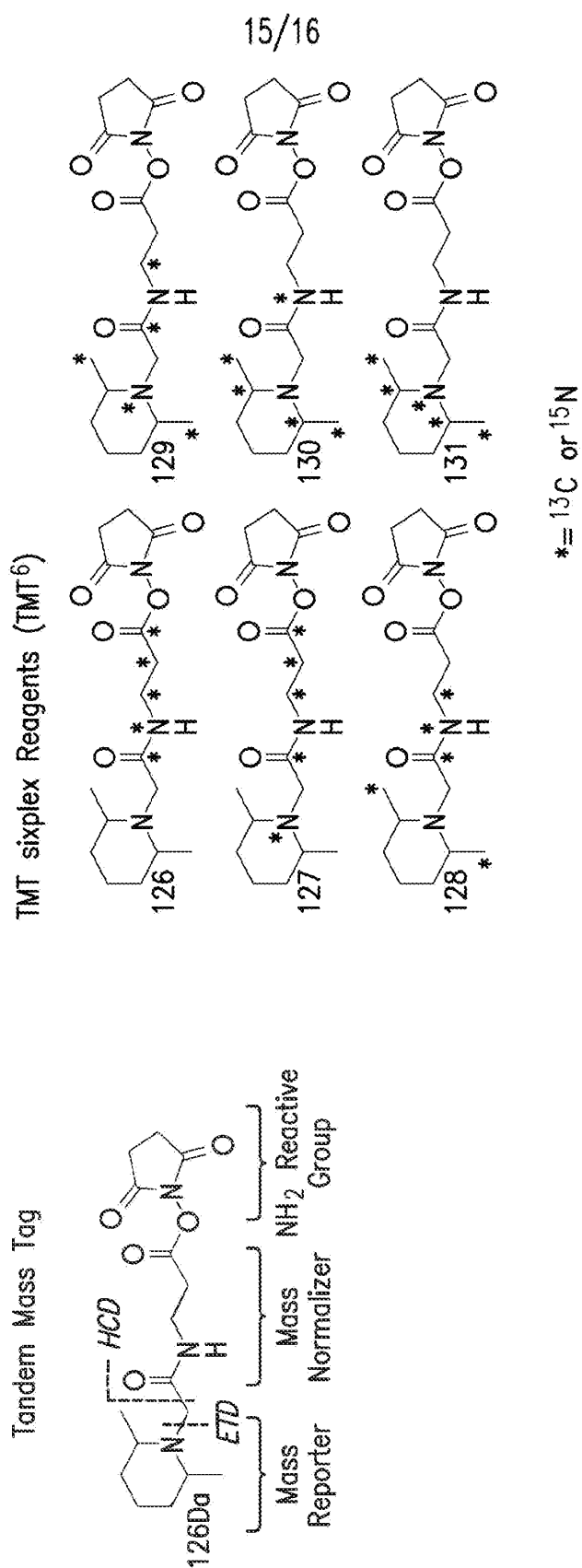


FIG.10

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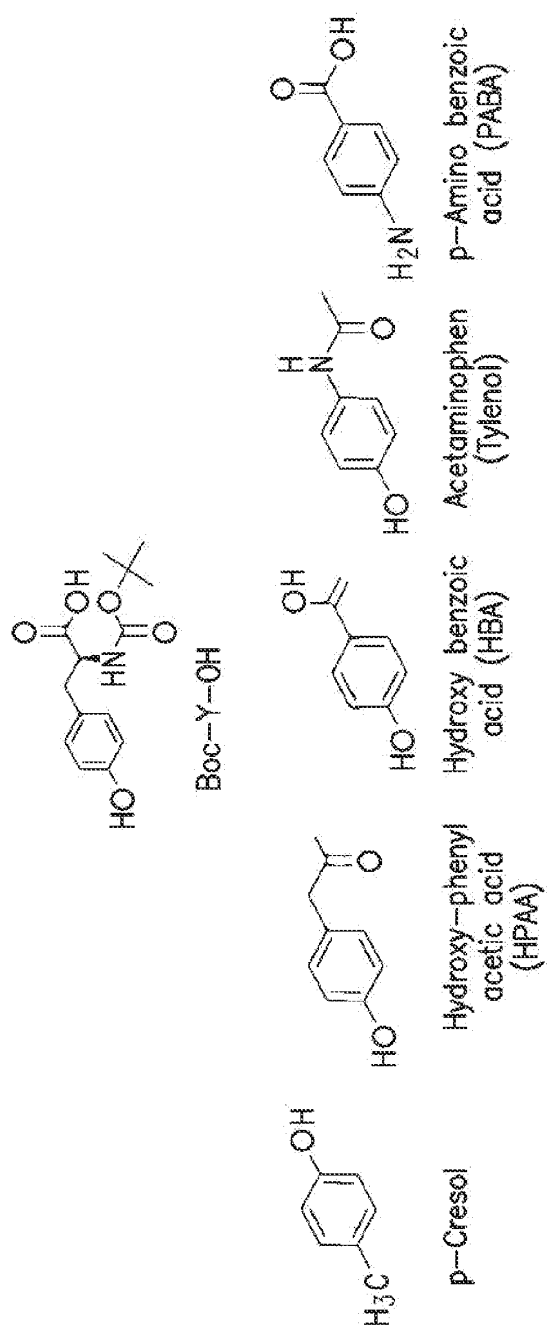


FIG.11