Figure 1

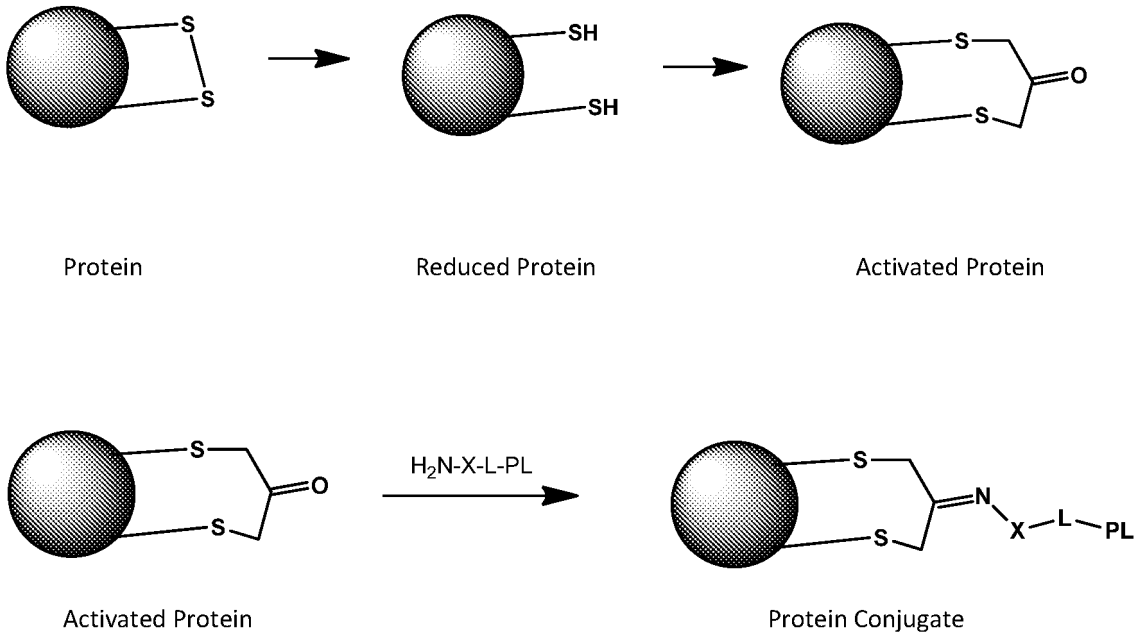
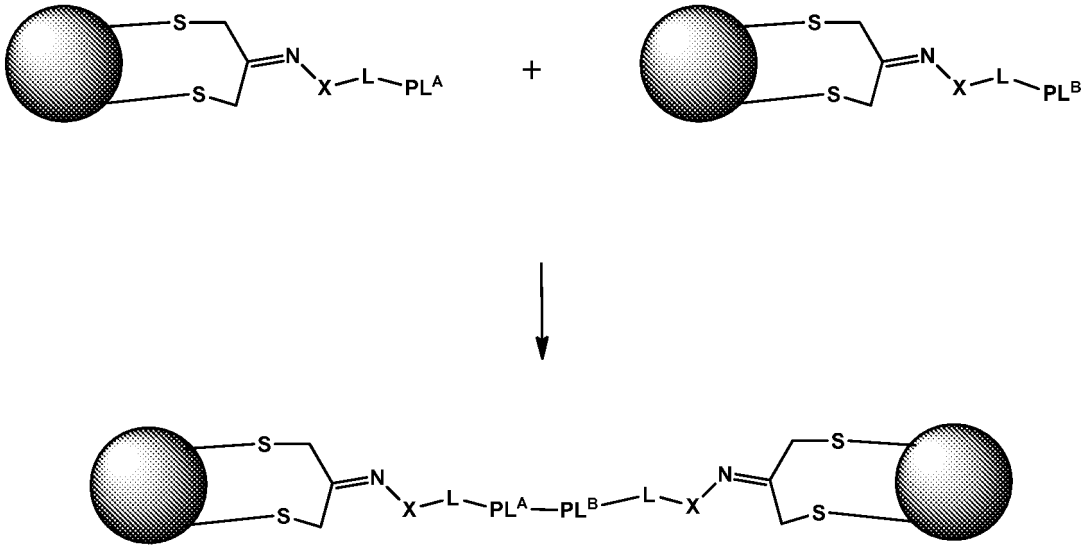

S
S
SH
SH
S
O
S
Protein
Reduced Protein
Activated Protein
S
O
S
H2N-X-L-PL
S
N
X
L
PL
S
Activated Protein
Protein Conjugate

Figure 2. Coupling two conjugates having complementary coupling groups.



PL^A and PL^B are complementary coupling groups

Figure 3

Figure 3A

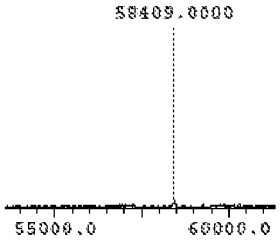


Figure 3B

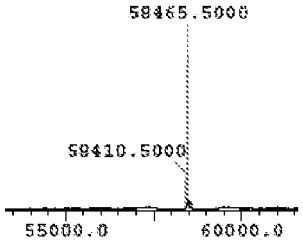


Figure 3C

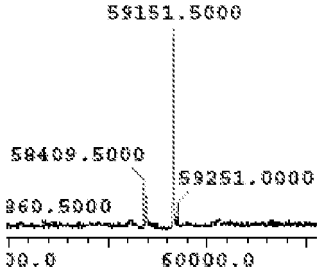
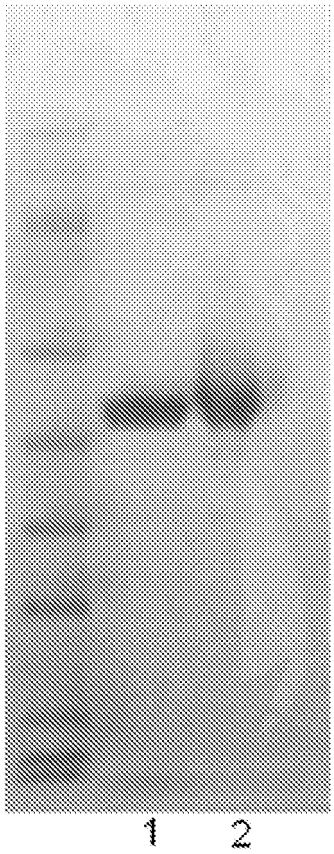


Figure 4

SDS Page Gel Analysis of the site-defined azido compound bearing CRM197



1 – Ketone modified CRM-197
2 – Oxime modified CRM-197

Figure 5

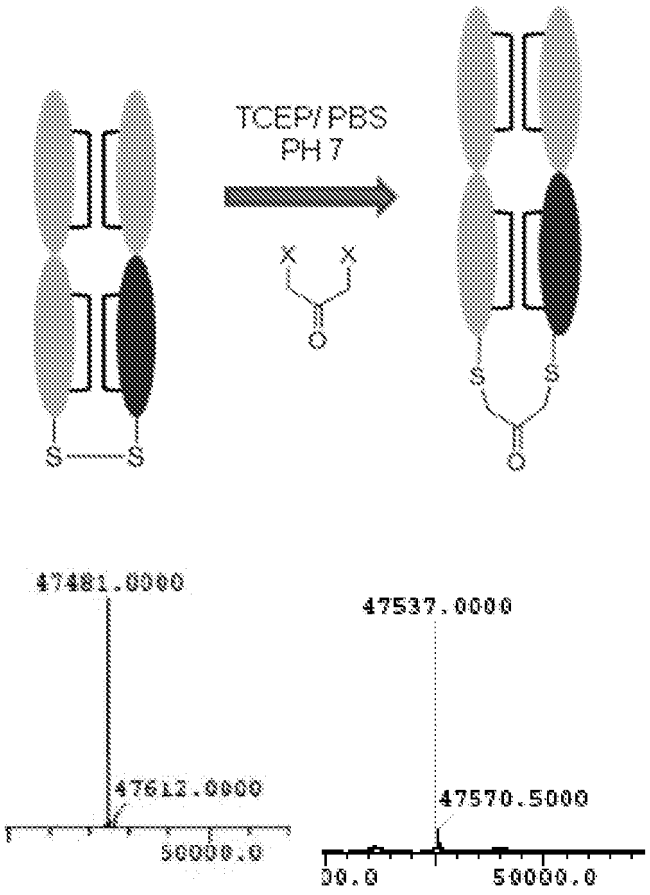
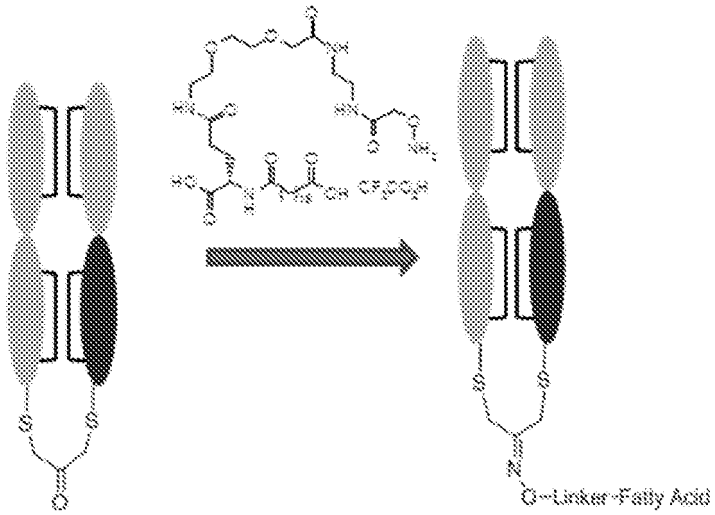

TCEP/PBS
PH 7
X
X
O
S
S
S
S
O
47481.0000
47613.0000
50000.0
47537.0000
47570.5000
00.0
50000.0

Figure 6


O-Linker-Fatty Acid

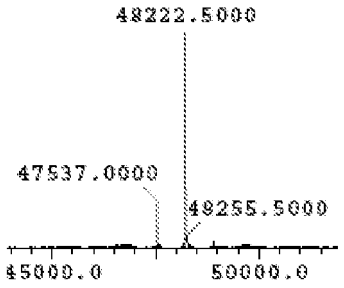
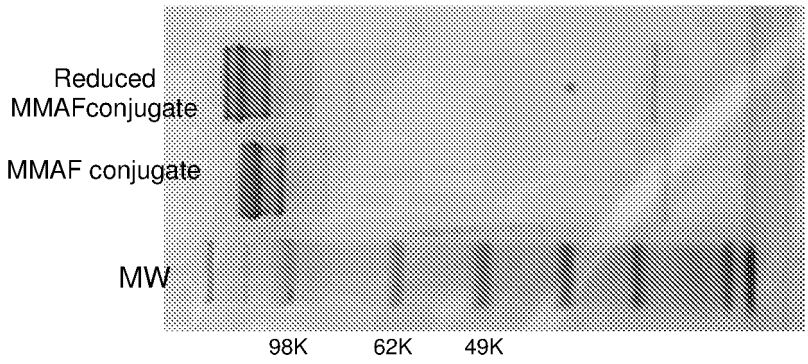

48222.5000
47537.0000
49255.5000
45000.0
50000.0

Figure 7.



LC-MS of the product of Method B in Example 6.

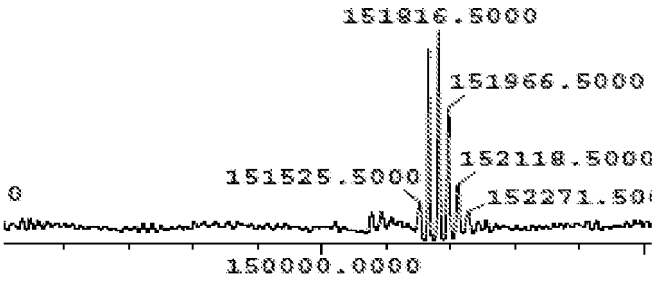
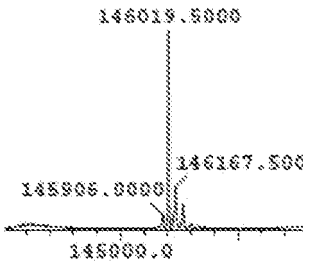
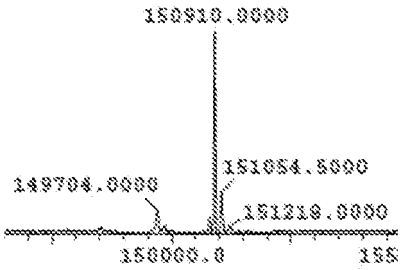


FIGURE 8.

Example 7, step 1:



Example 7, step 2: PL1, Method A:



Example 7, step 2: PL2, Method B:

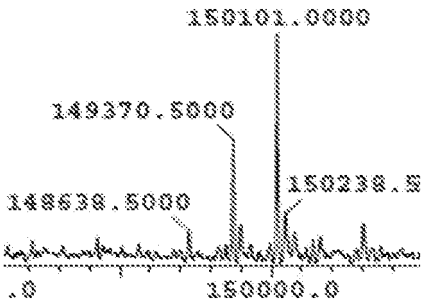
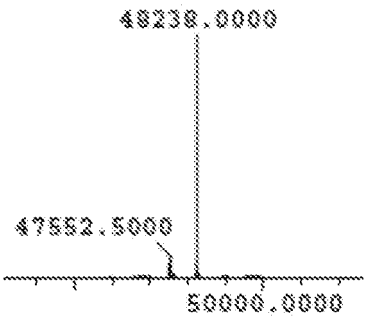
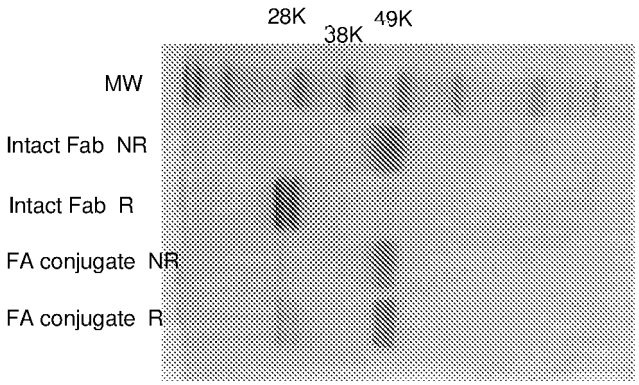


FIGURE 9


48238.0000
47552.5000
50000.0000


28K
38K
49K
MW
Intact Fab NR
Intact Fab R
FA conjugate NR
FA conjugate R