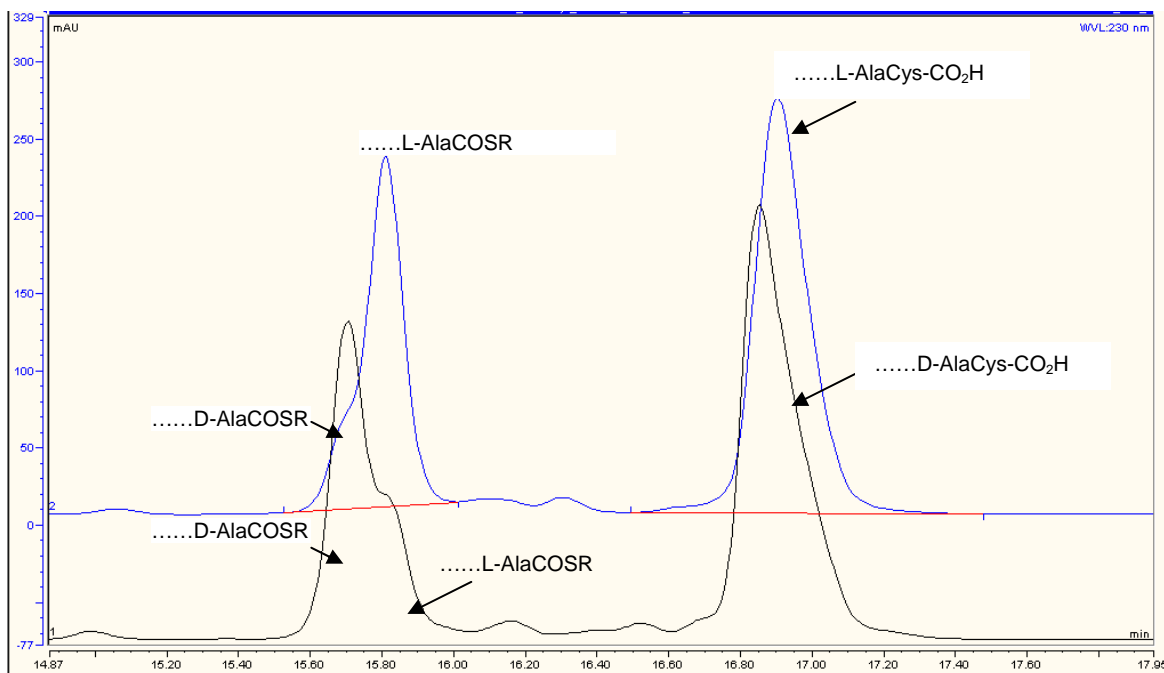


**Supporting Information for Exploring neoglycoprotein assembly through native chemical ligation using neoglycopeptide thioesters prepared via N→S acyl transfer**

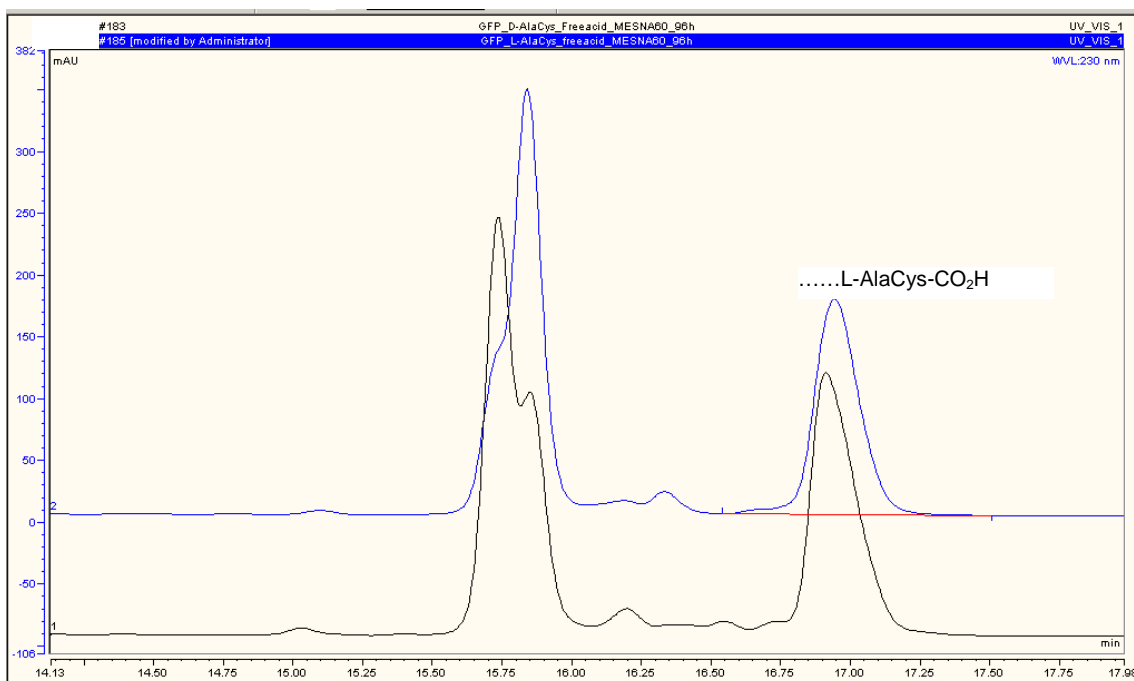
Jonathan P. Richardson, Chung-Hei Chan, Javier Blanc, Mona Saadi and Derek

Macmillan \*

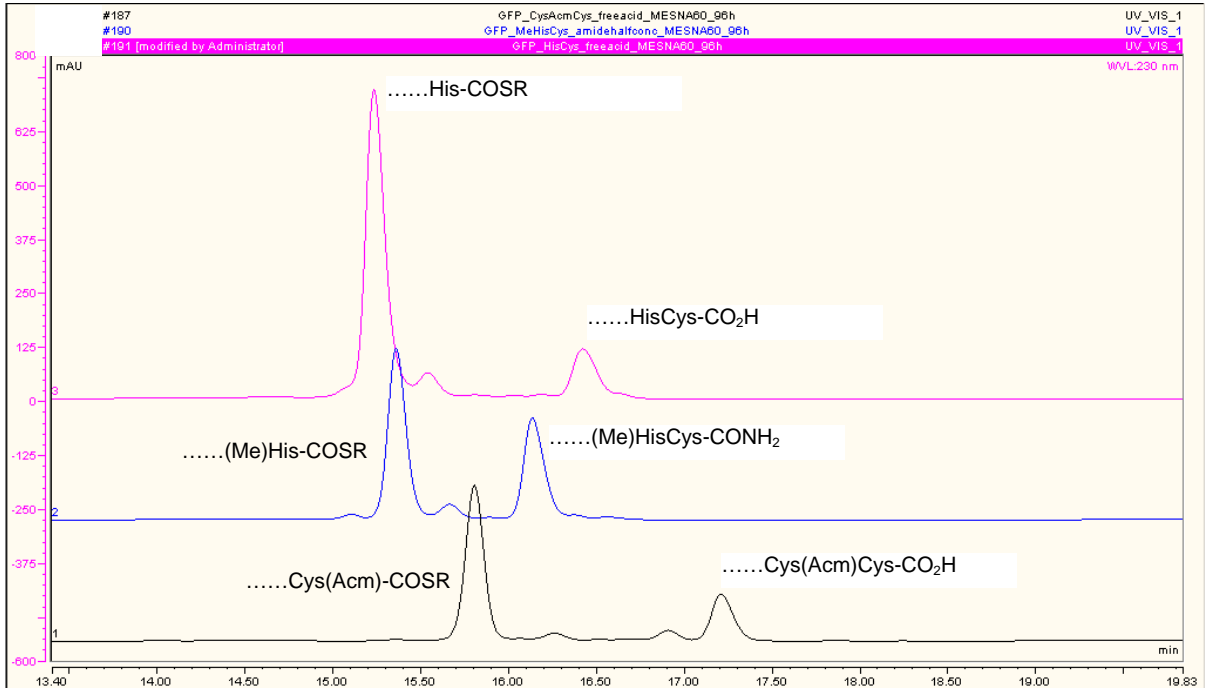
Racemisation of D-Ala-Cys and L-Ala-Cys terminated peptide after 48 h reaction:



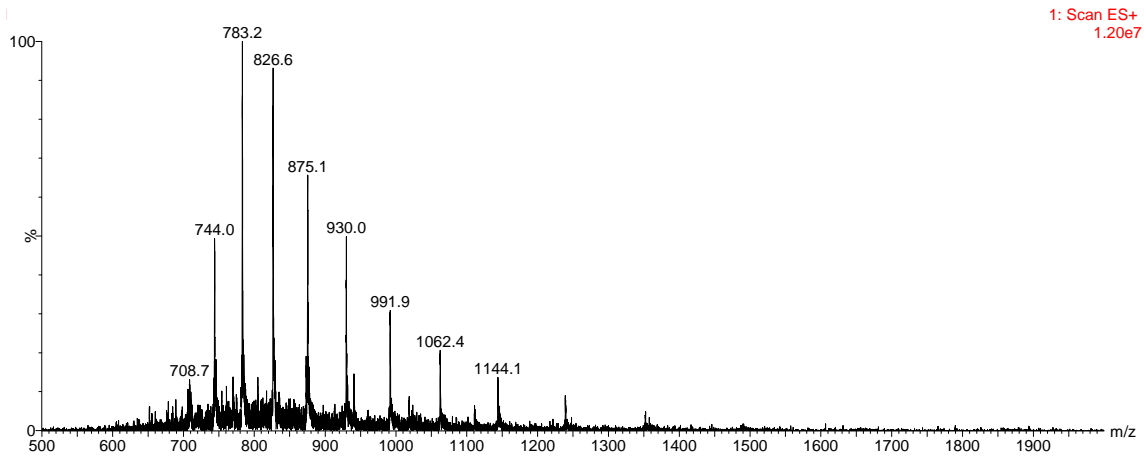
Racemisation of D-Ala-Cys and L-Ala-Cys terminated peptide after 96 h reaction:



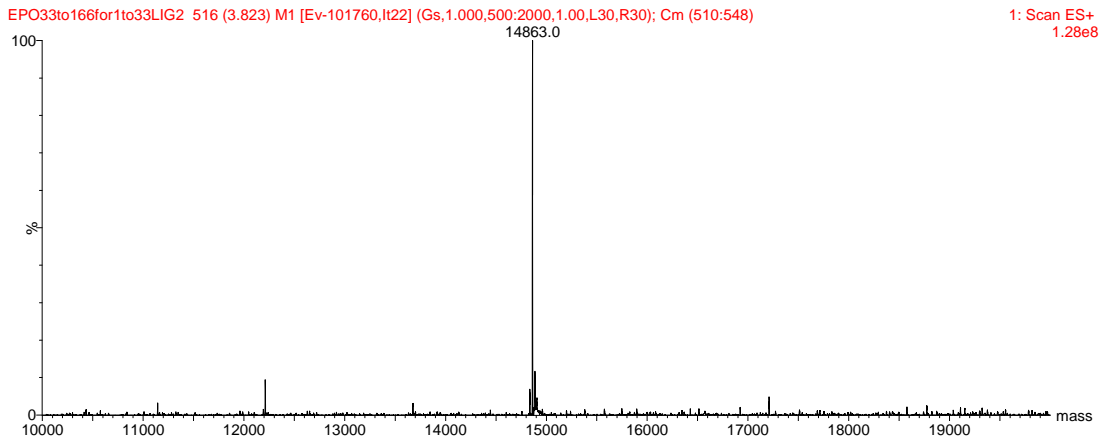
No comparable degree of racemisation is observed in thioesterification of His-Cys, (Me)His-Cys or Cys(Acm)-Cys terminated peptides (acids or amides) after 96 h reaction:



Mass spectrum of recombinant Erythropoietin fragment comprising residues 33 to 166:



Deconvoluted mass spectrum:



Purification of ligation product:

**C33-166, t=0**

