

CHEM**BIO**CHEM

Supporting Information

© Copyright Wiley-VCH Verlag GmbH & Co. KGaA, 69451 Weinheim, 2007

CHEM**BIO**CHEM

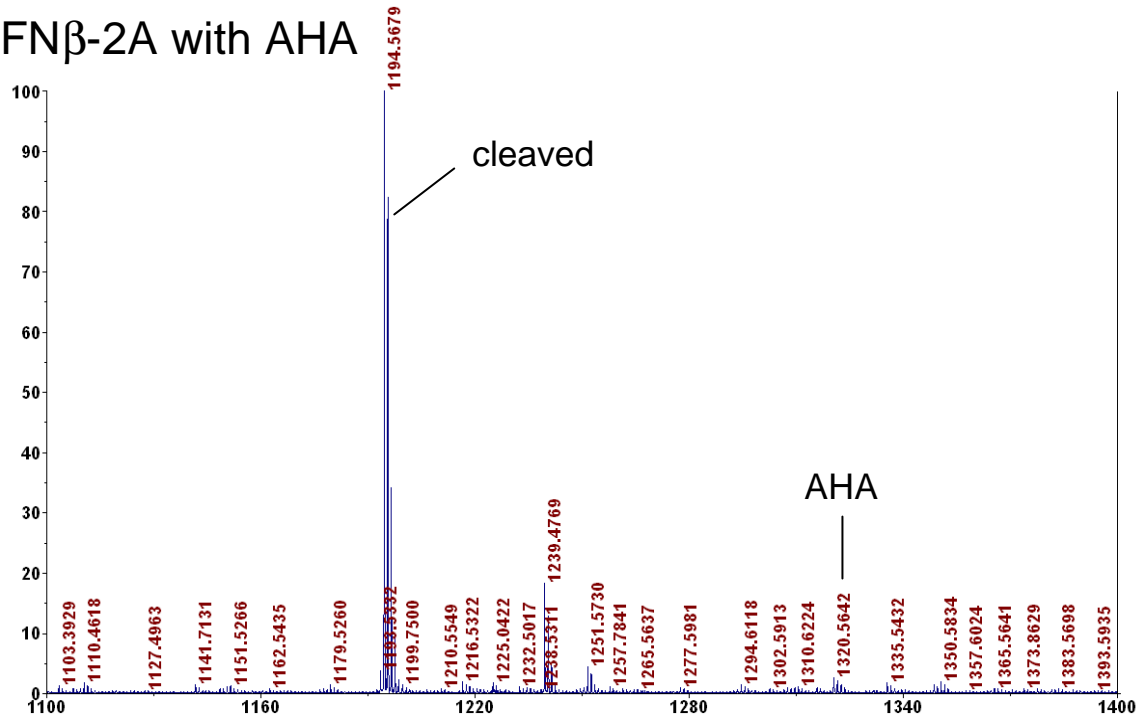
Supporting Information

for

Processing of N-Terminal Unnatural Amino Acids in Recombinant
Human Interferon- β in *Escherichia coli*

Aijun Wang*, Natalie Winblade Nairn, Richard S. Johnson,
David A. Tirrell, and Kenneth Grabstein

IFN β -2A with AHA



IFN β -2A with HPG

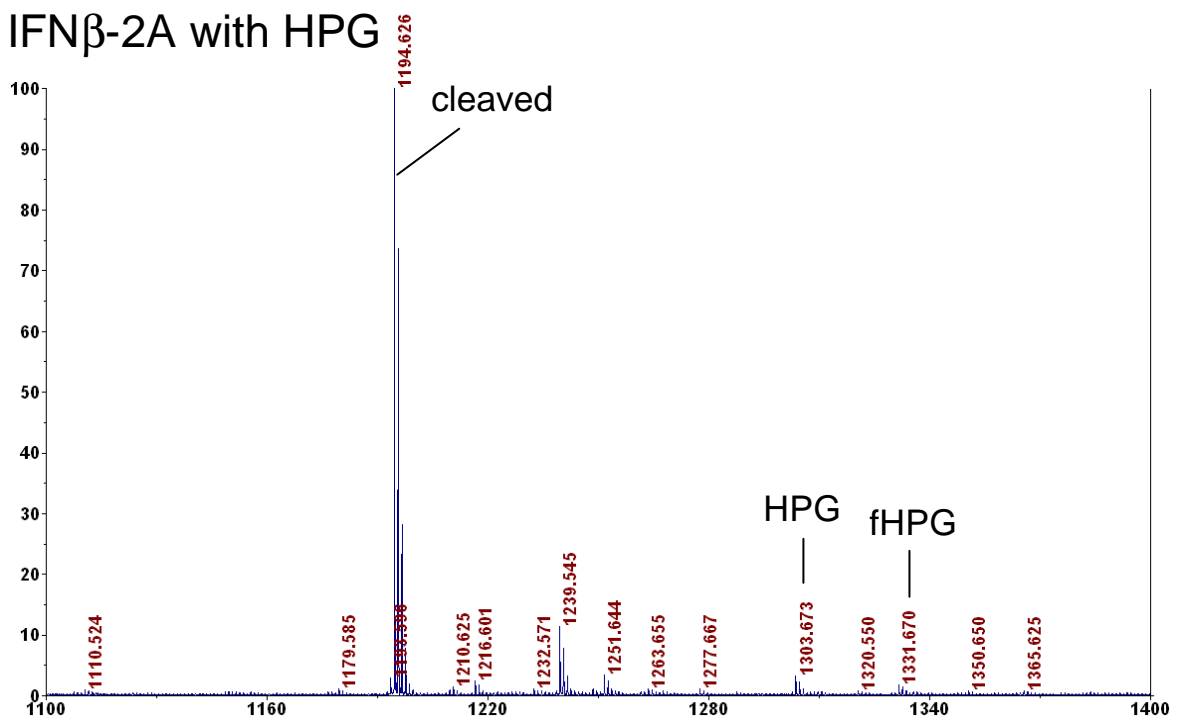
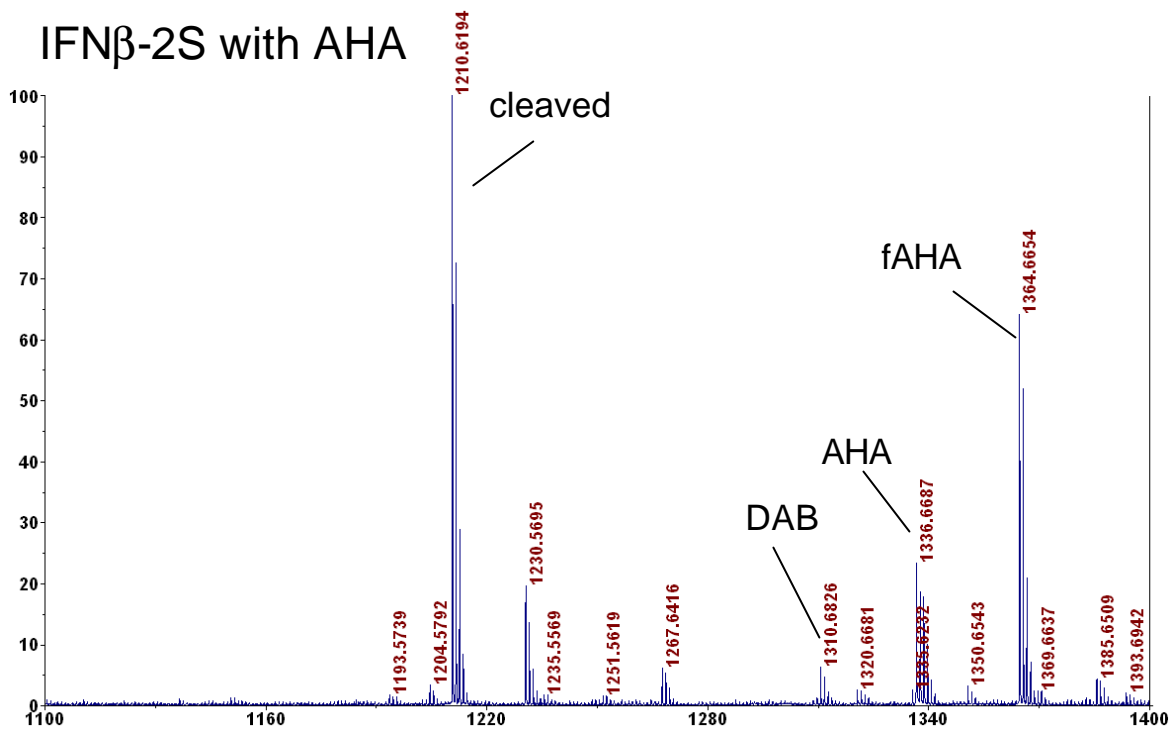
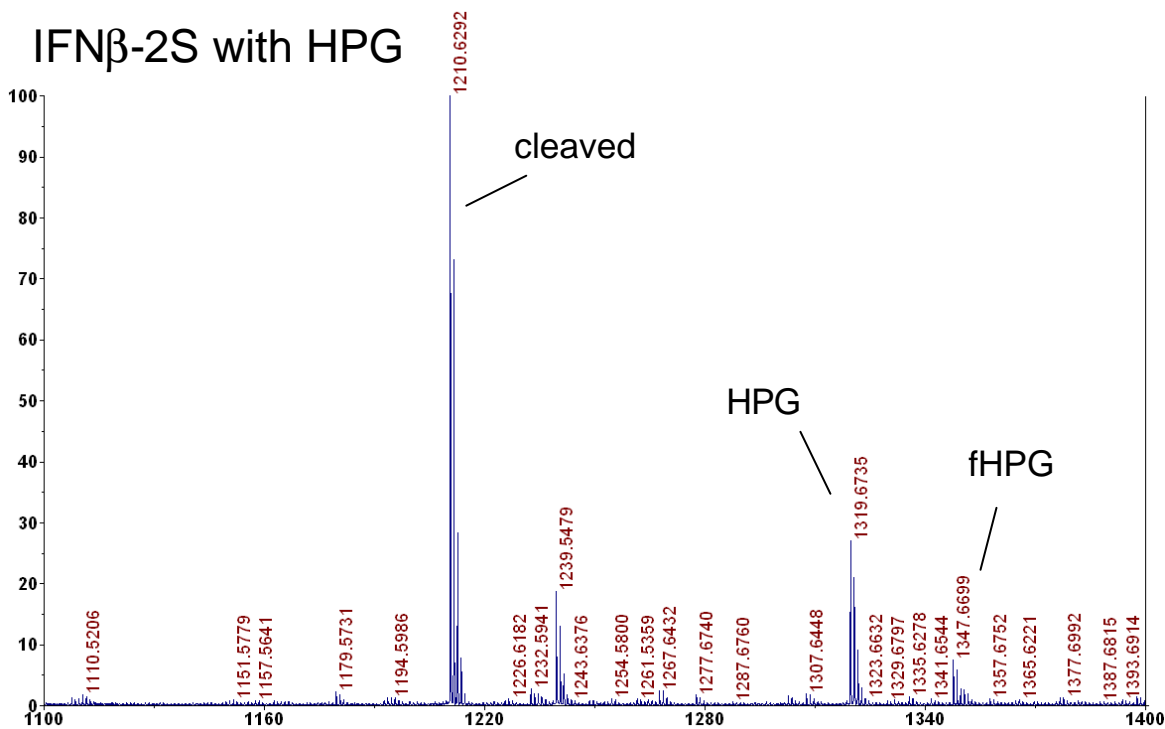


Figure S1. MALDI mass spectra of the tryptic peptides for all IFN β protein variants expressed with AHA or HPG (Table 1). The N-terminal peptide variants are labeled. The signal at 1239.5 is assigned to an internal IFN β peptide.

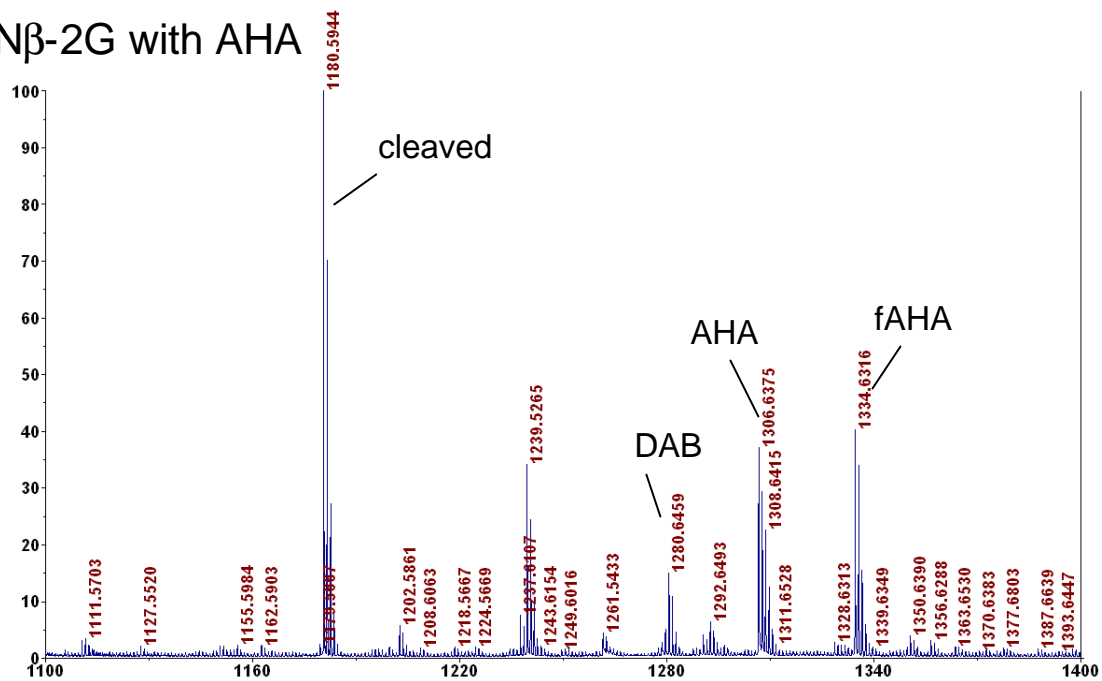
IFN β -2S with AHA



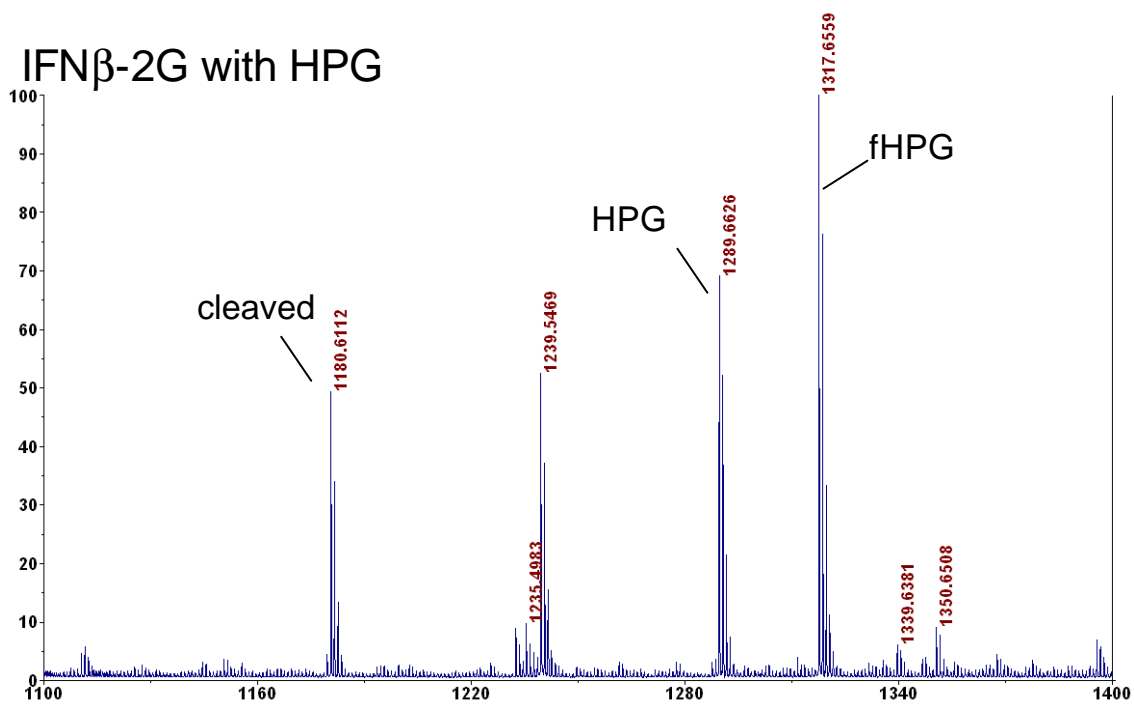
IFN β -2S with HPG

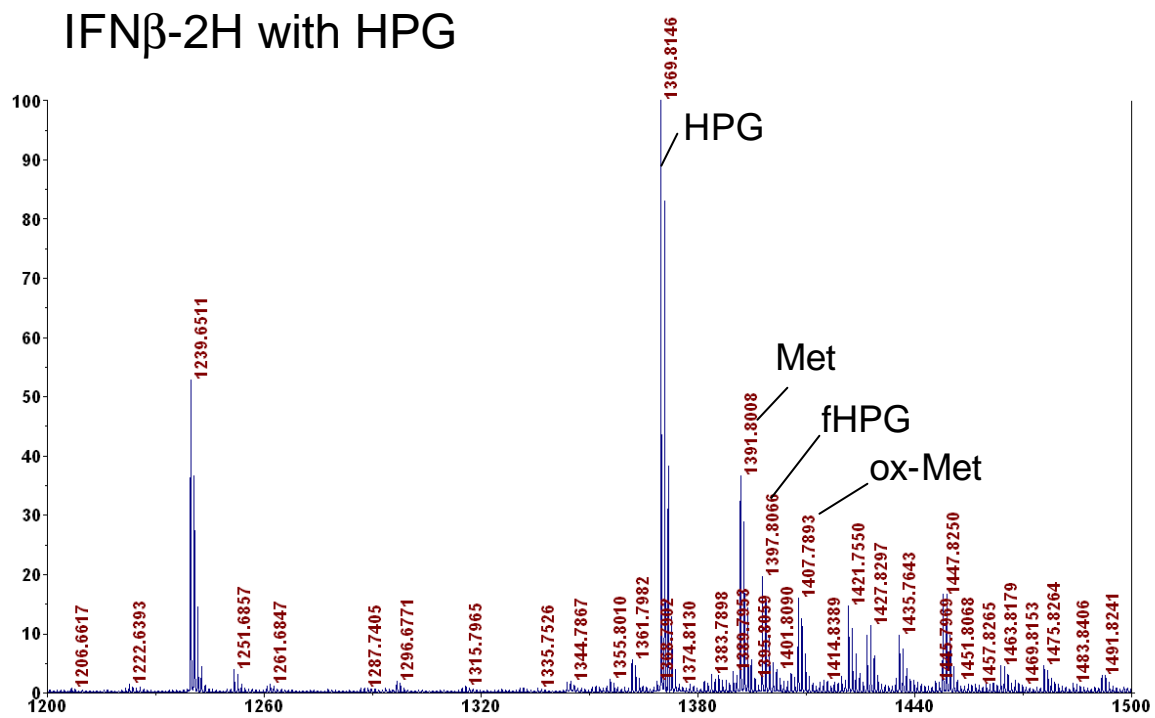
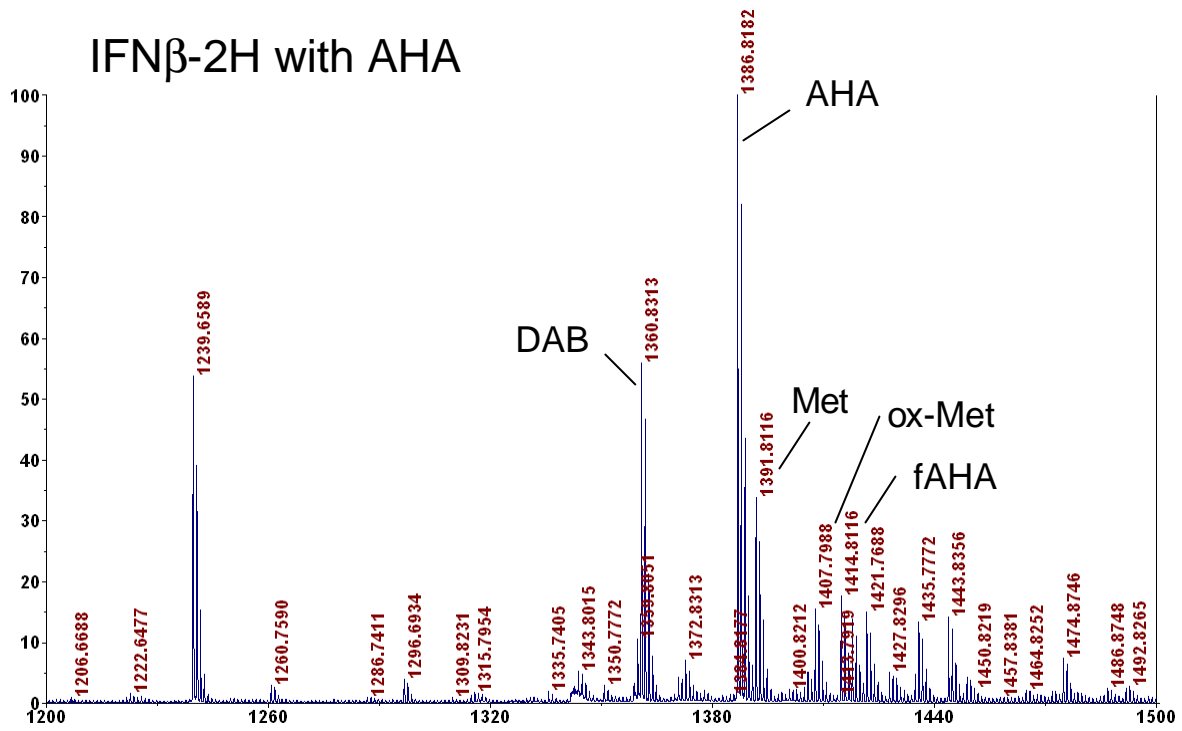


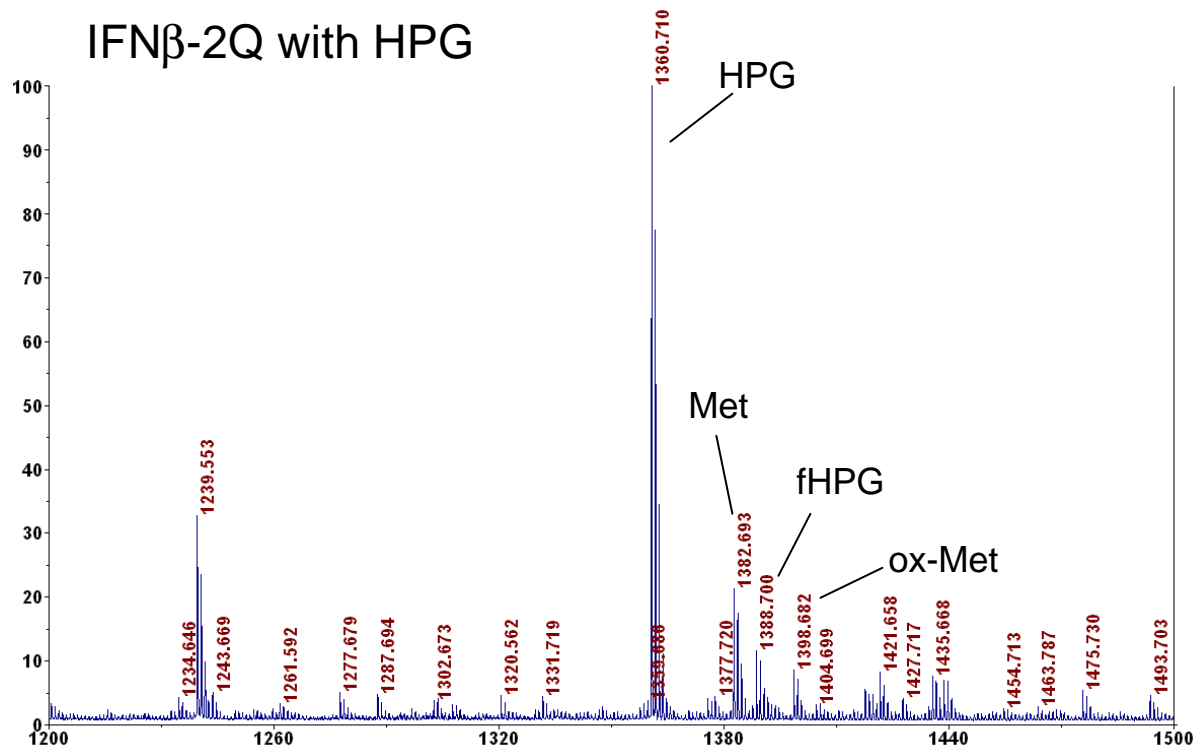
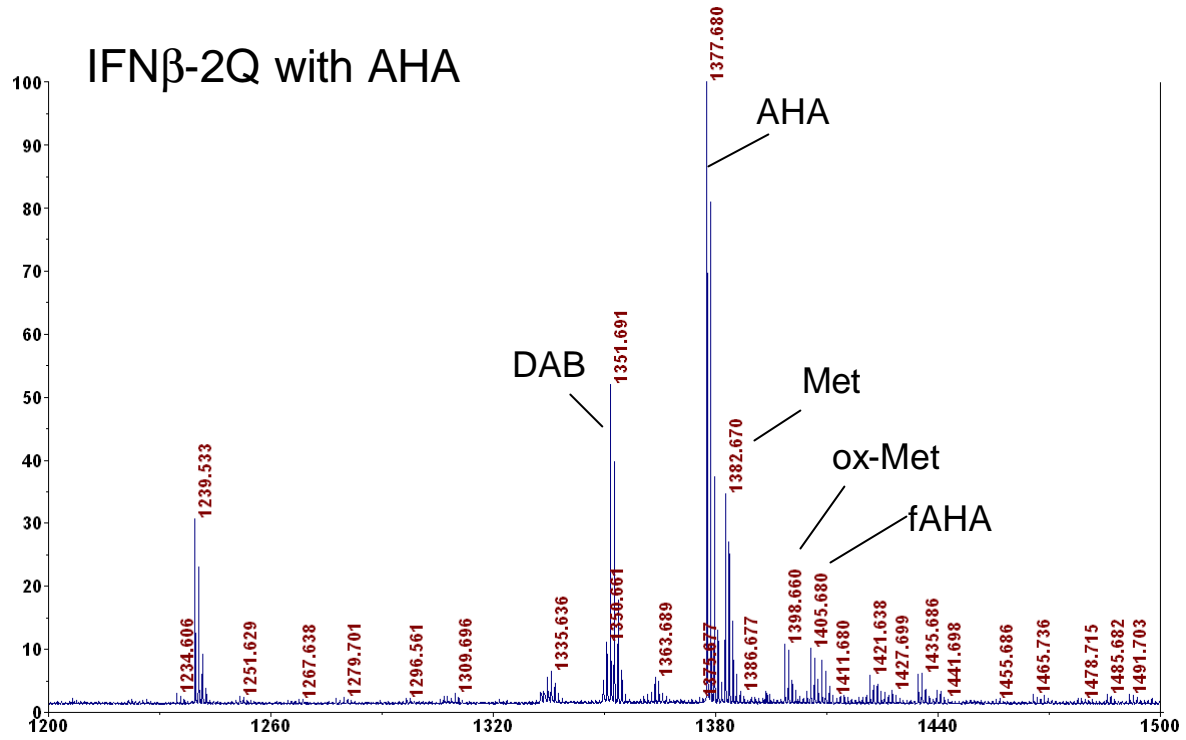
IFN β -2G with AHA



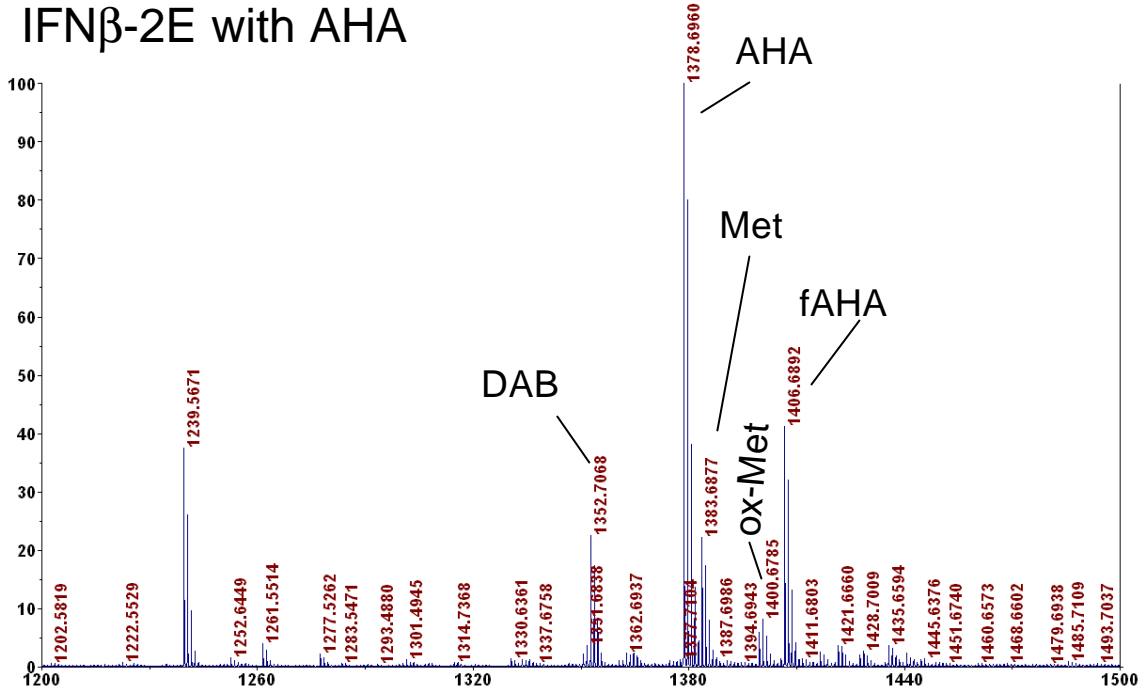
IFN β -2G with HPG



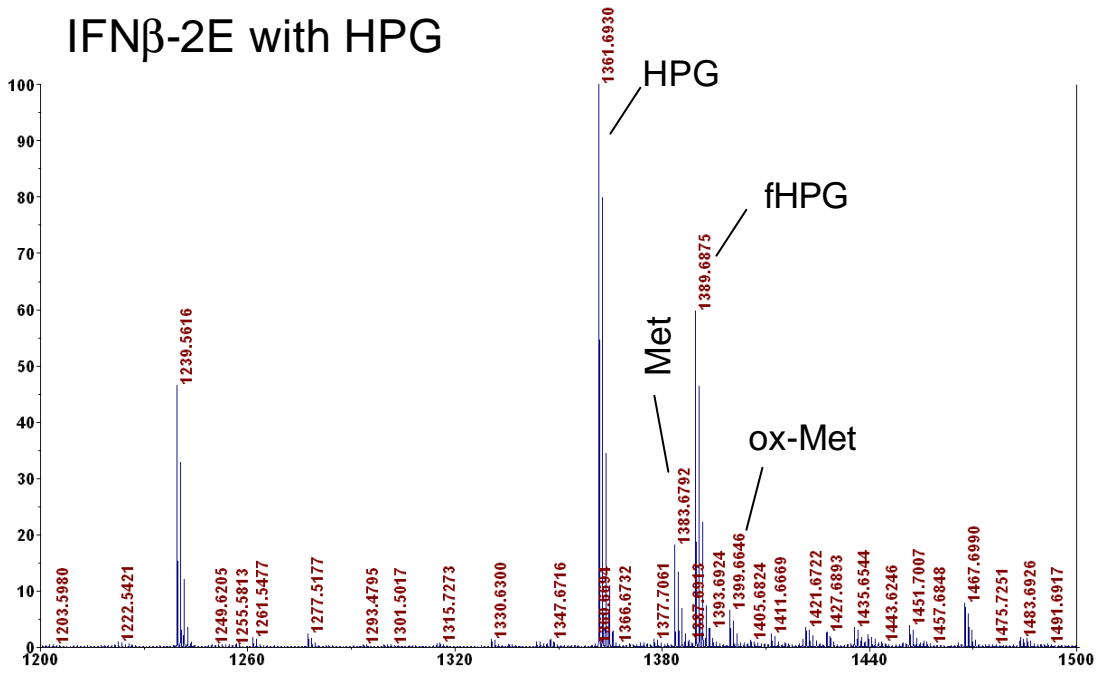




IFN β -2E with AHA



IFN β -2E with HPG



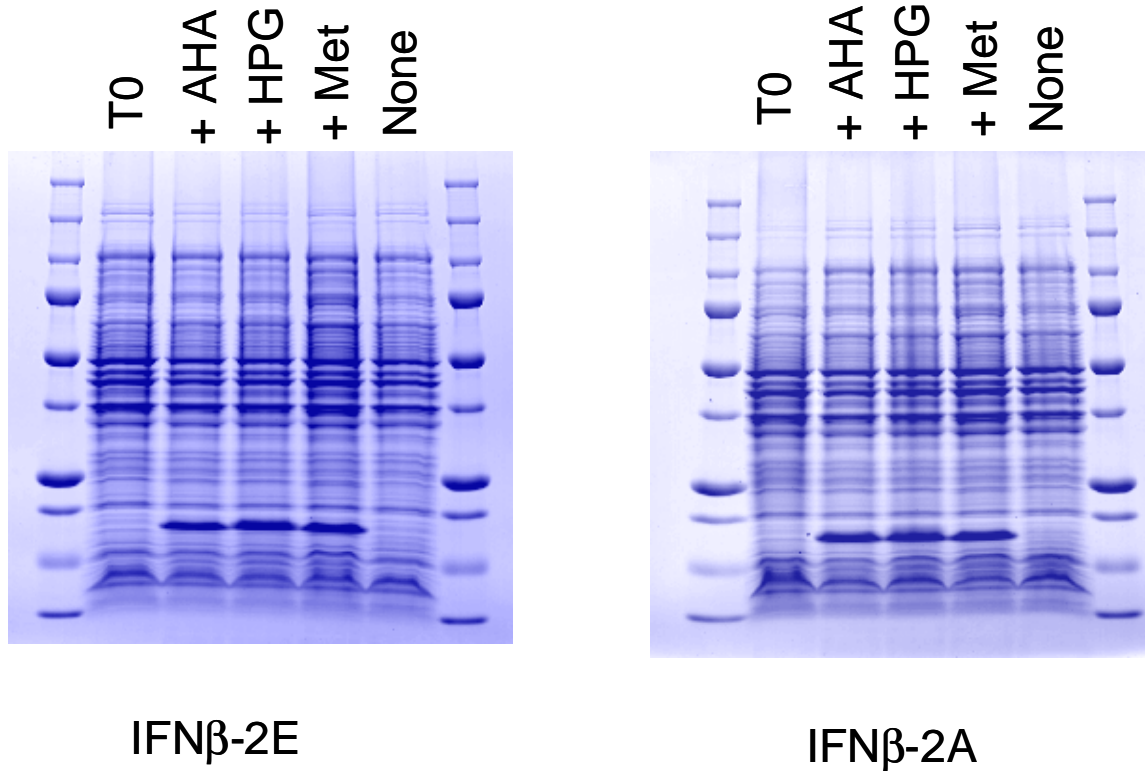


Figure S2. SDS-PAGE (4-20%) of recombinant IFN β -2E and IFN β -2A expression profiles. *E. coli* cell lysates prior to induction (T0), and 2 h post IPTG induction in Met free medium supplemented with AHA, HPG, Met, or no Met or analog, were analyzed and protein bands were visualized by Coomassie Blue staining. The protein markers in lane 1 and 7 are 250, 150, 100, 75, 50, 37, 25, 20, 15 and 10 kDa.