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Supporting Information

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Supporting Information

for

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

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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

IFN β -2E

IFN β -2A

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.