

Supporting information for

Spontaneous cleavage at Glu and Gln residues in long-lived proteins.

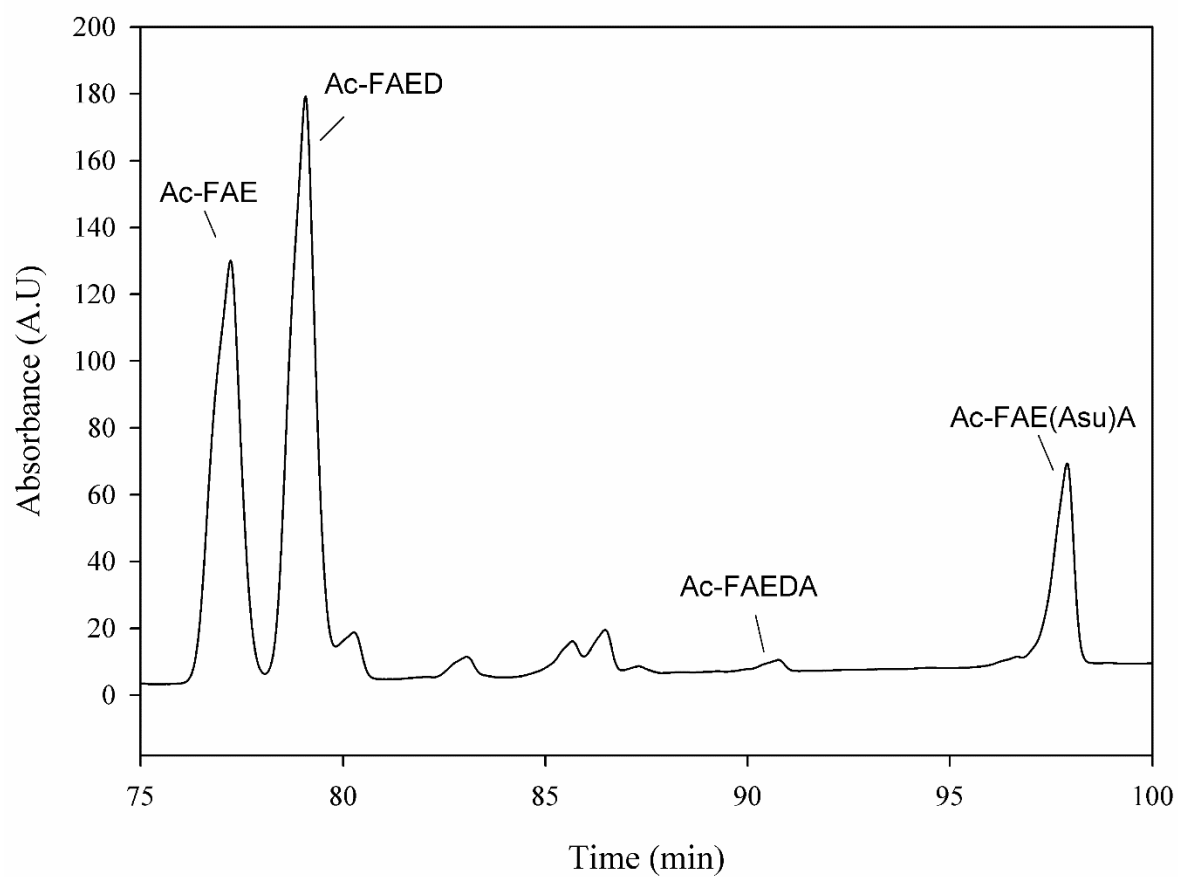
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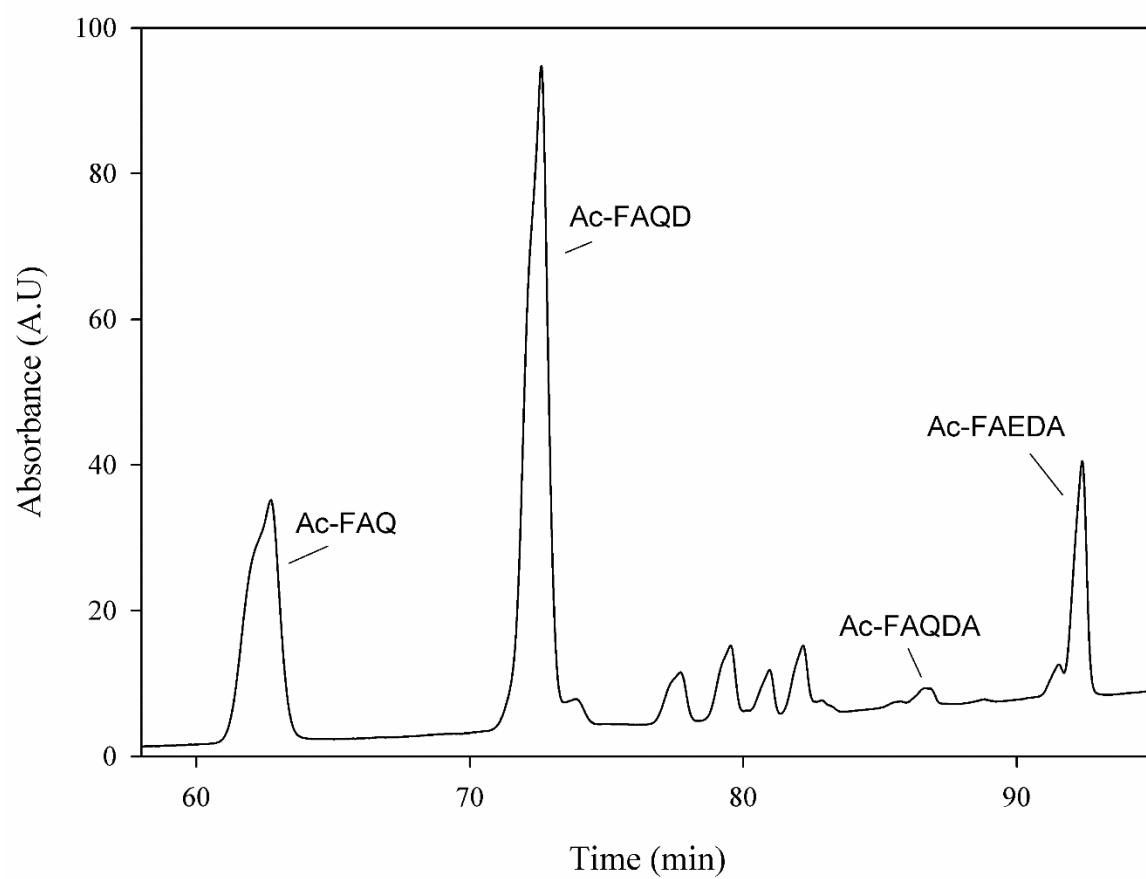
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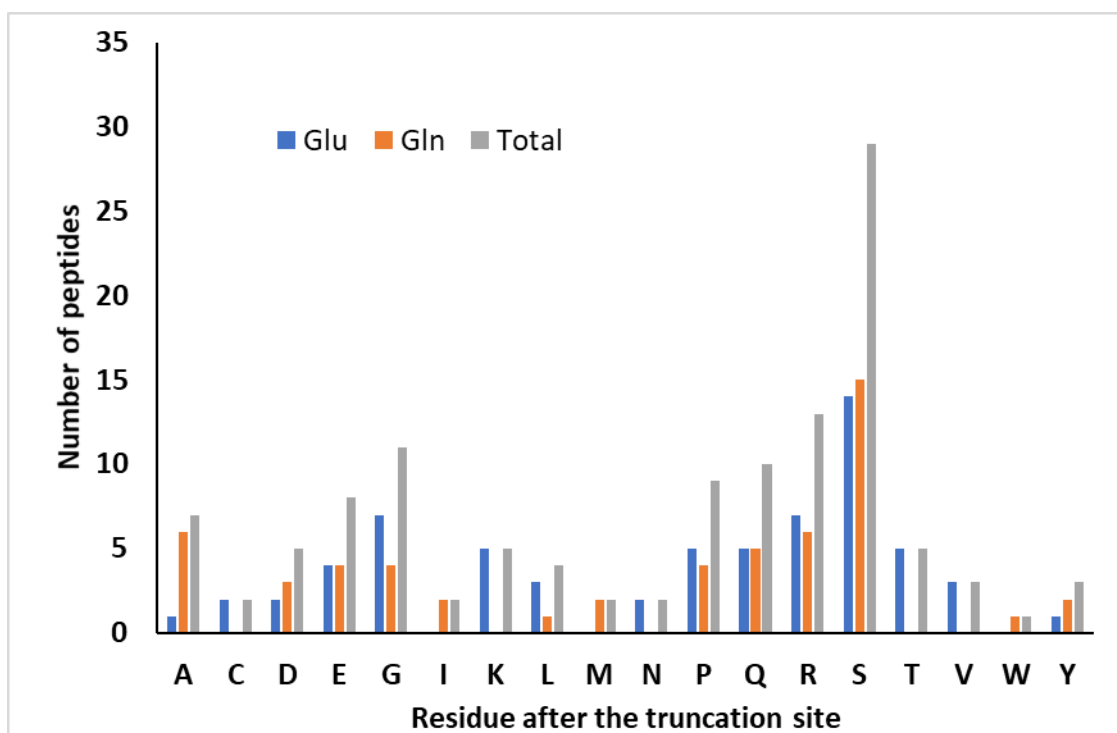
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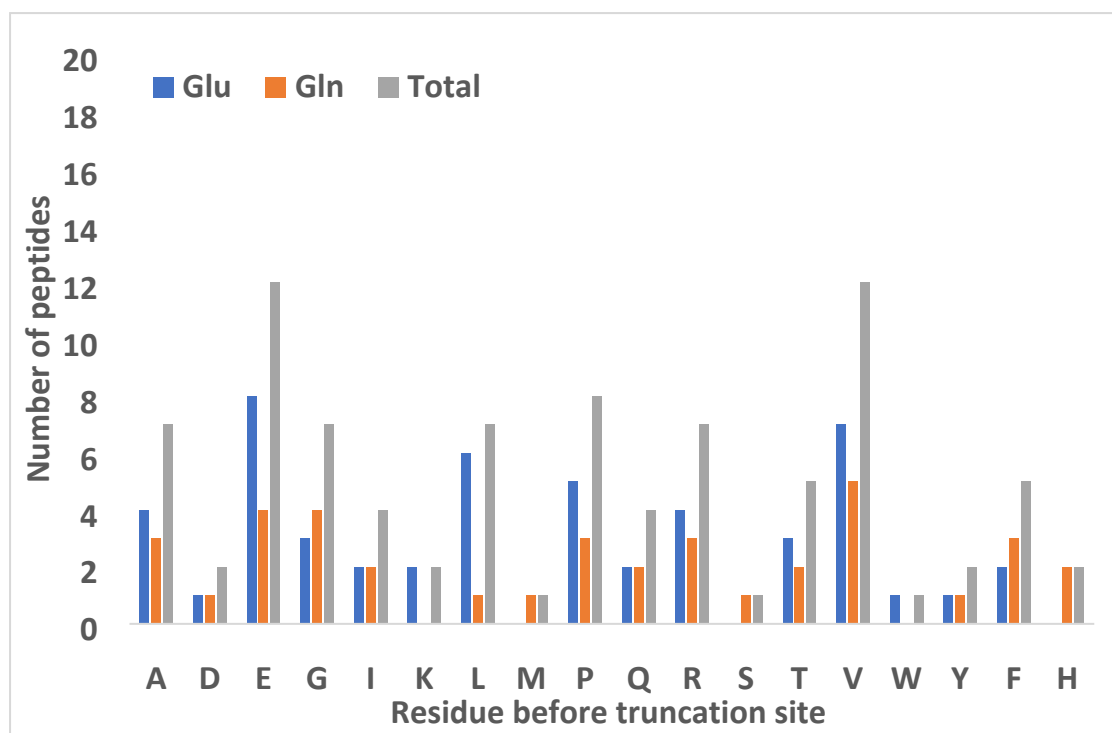
Supplemental Figure 1. Breakdown of Ac-FAEDA at pH 4. HPLC profile of Ac-FAEDA after incubation for 25 days at 60°C. The pH 4.0 incubation displayed little original Ac-FAEDA after this time. All peaks labelled were identified by mass spectrometry.



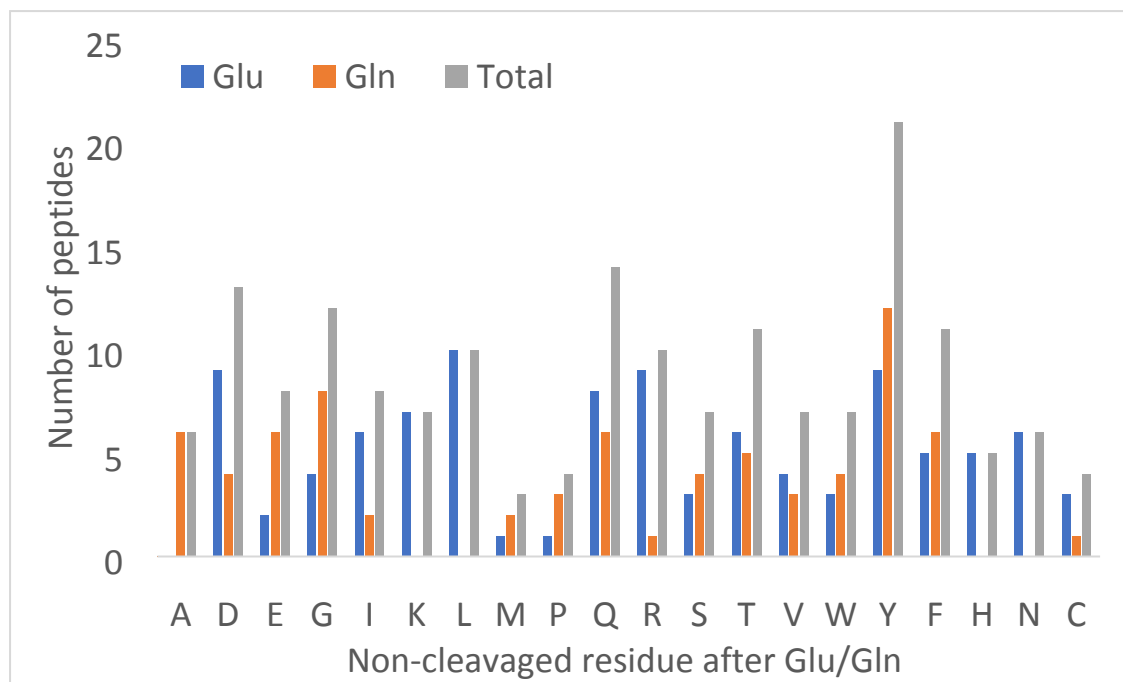
Supplemental Figure 2. HPLC profiles of Ac-FAQDA after incubation at pH 4 for 25 days at 60°C. At pH 4.0 little Ac-FAQDA remained. All peaks labelled were identified by mass spectrometry.



Supplemental figure 3. Histogram showing the amino acids occurring on the C-terminal side of Gln and Glu cleavage sites



Supplemental figure 4. Histogram showing the amino acids occurring on the N-terminal side of Gln and Glu cleavage sites



Supplemental figure 5. Histogram showing the amino acids occurring on the C-terminal side of Gln and Glu at sites in lens crystallins that did not show evidence of cleavage.