

Supporting Information:

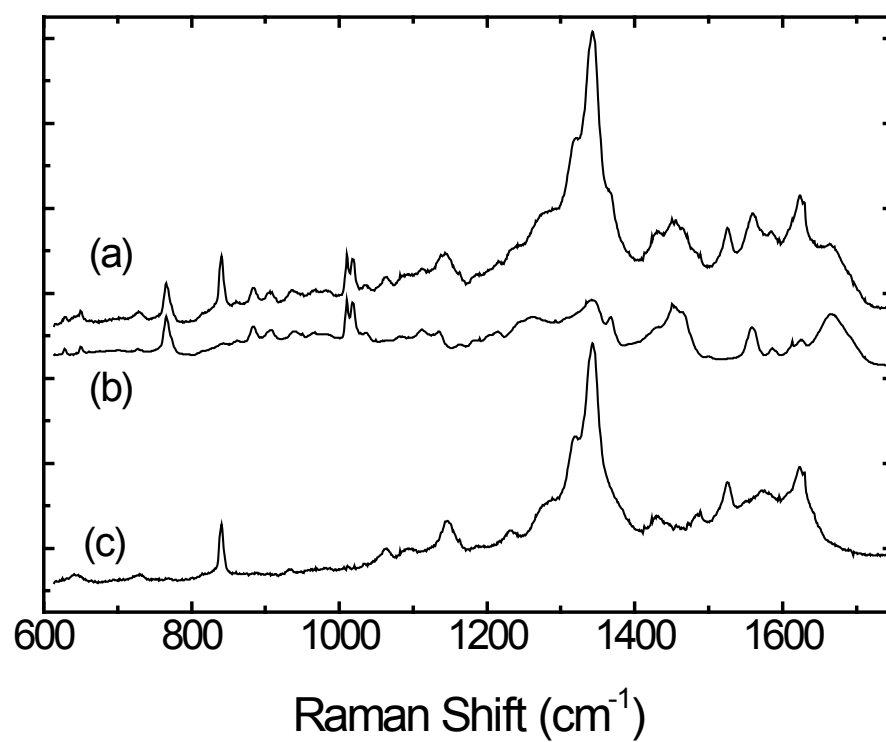


Figure S1: DCDR Raman spectra of (a) DNPH-oxiLys, (b) lysozyme control and (c) difference spectrum between (a) and (b).

2: DCDR protein library spectral acquisition

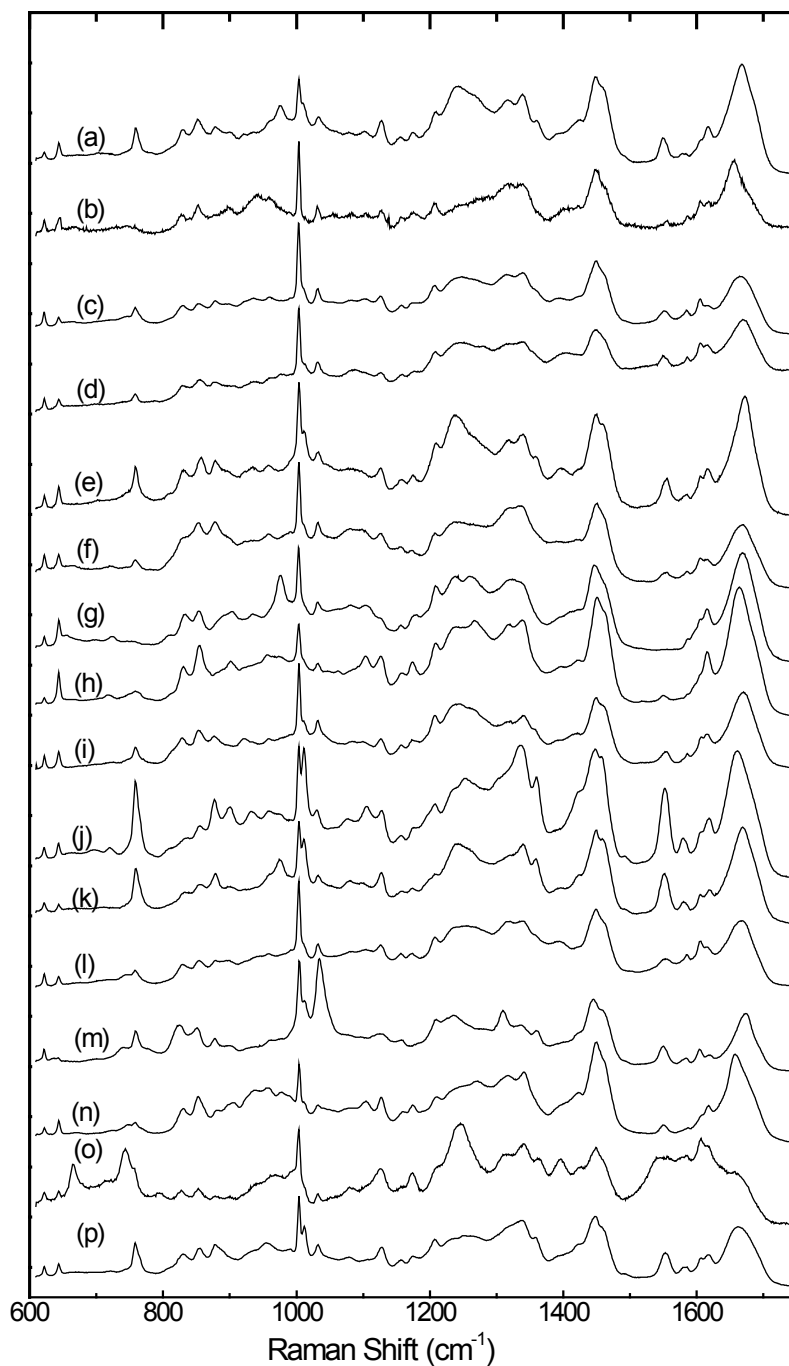


Figure S2: Protein Raman library spectrum obtained with (a) Trypsin, (b) BSA, (c) Thyroglobulin, (d) Thaumain, (e) globulin, (f) Urease, (g) ribonuclease, (h) Protease, (i) Pepsin, (j) lysozyme, (k) Chymotrypsin, (l) cholinesterase, (m) avidin, (n) aldose, (o) α -lactoglobulin, (p) aconitase. Spectra were scaled and offset for clarity.