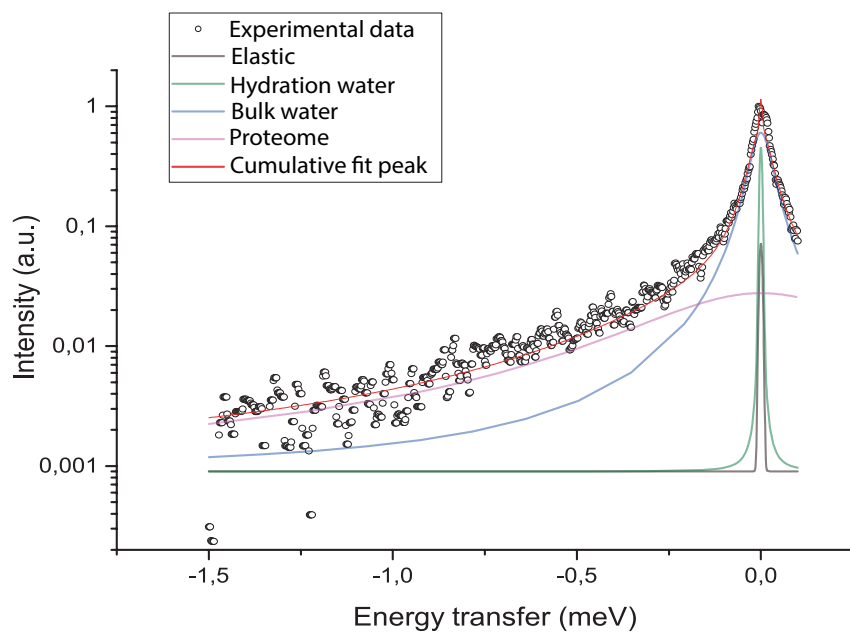
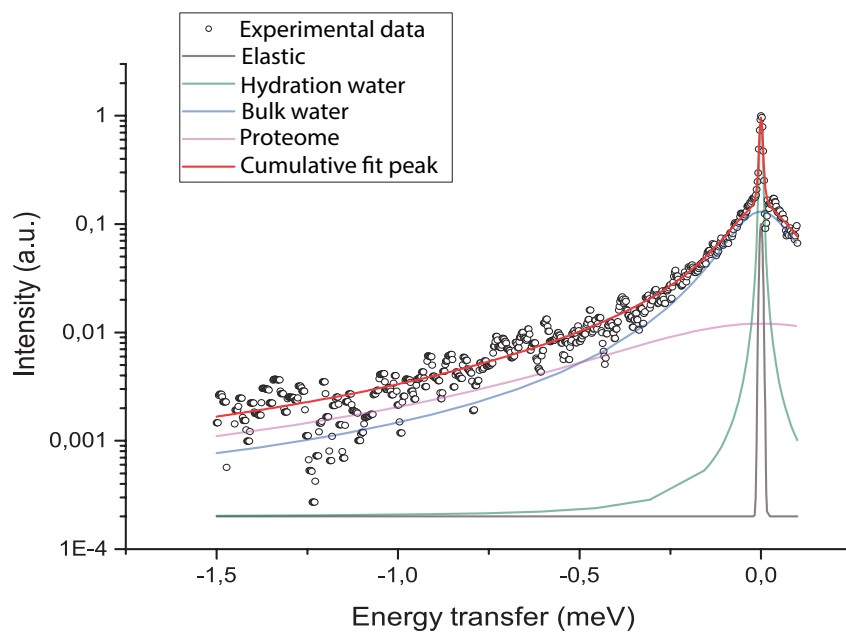


a



b



**Figure S3.** Normalized QENS spectra and fit for Tba\_MG at 298 K, 0.1 MPa,  $Q = 0.46 \text{ \AA}^{-1}$  (a) and  $Q = 0.96 \text{ \AA}^{-1}$  (b) on a semi-logarithmic scale.