Supplementary Note

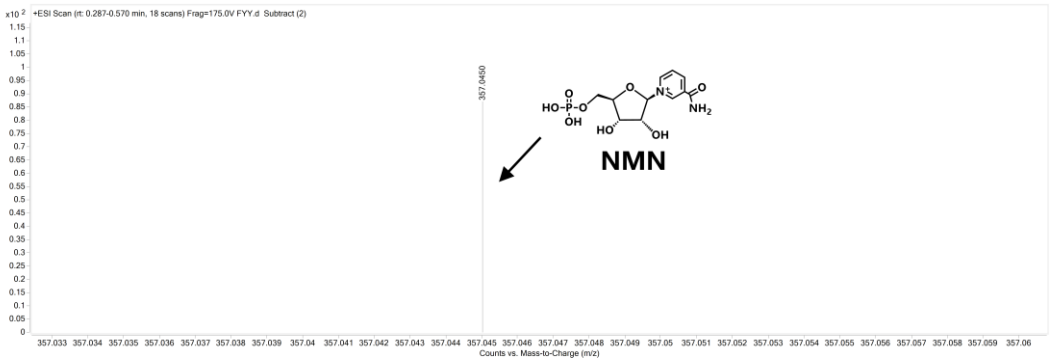


Figure S1. MS of the products NMN. MS results of samples catalysed by multiple enzyme cascades.

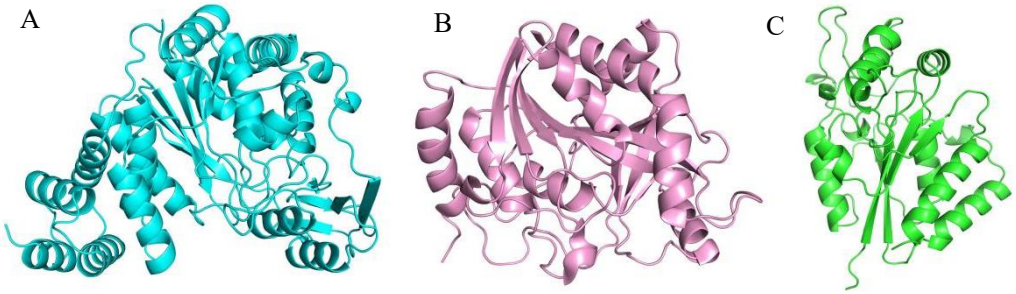


Figure S2. Structures of (A) PyNP , (B) XapA, and (C) NRK. Three enzymes shown as cartoon in cyan, pink, and green, respectively. PyNP and NRK sturctures were predicted using Alphafold3, whereas XapA structure was obtained from PDB (ID: 1YQQ).