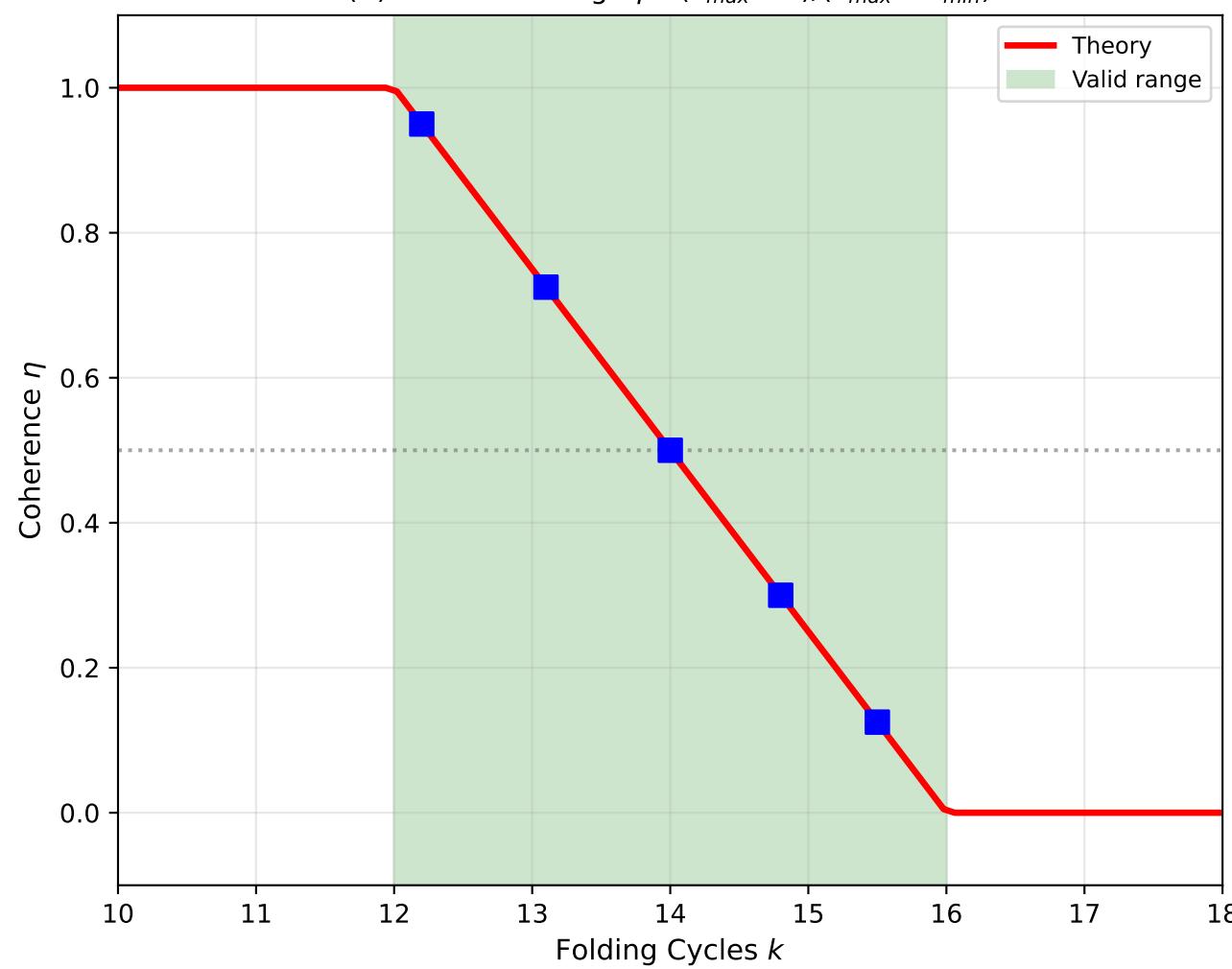


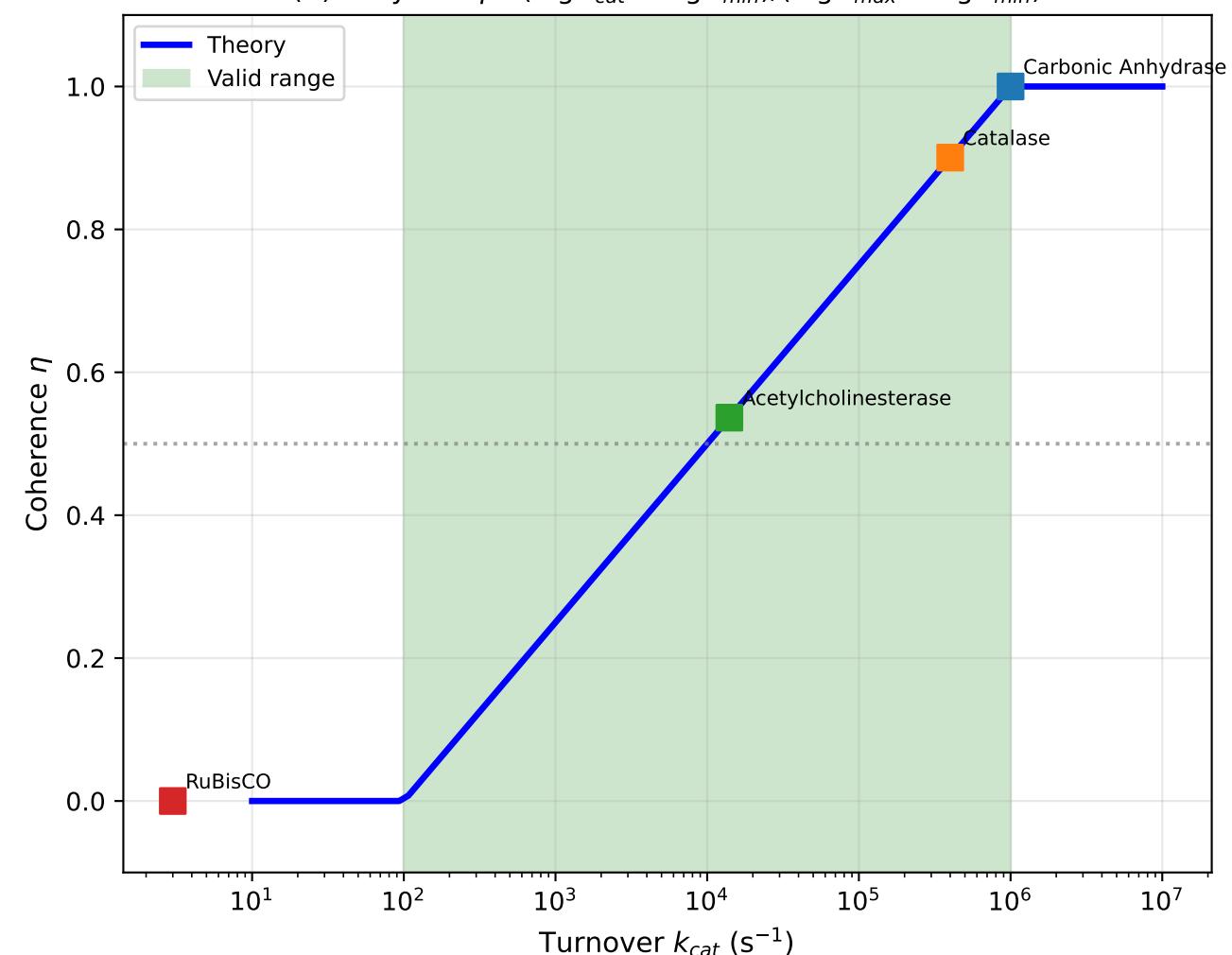
# Universal Coherence Equation Validation

$$\eta = (\Pi_{obs} - \Pi_{deg}) / (\Pi_{opt} - \Pi_{deg})$$

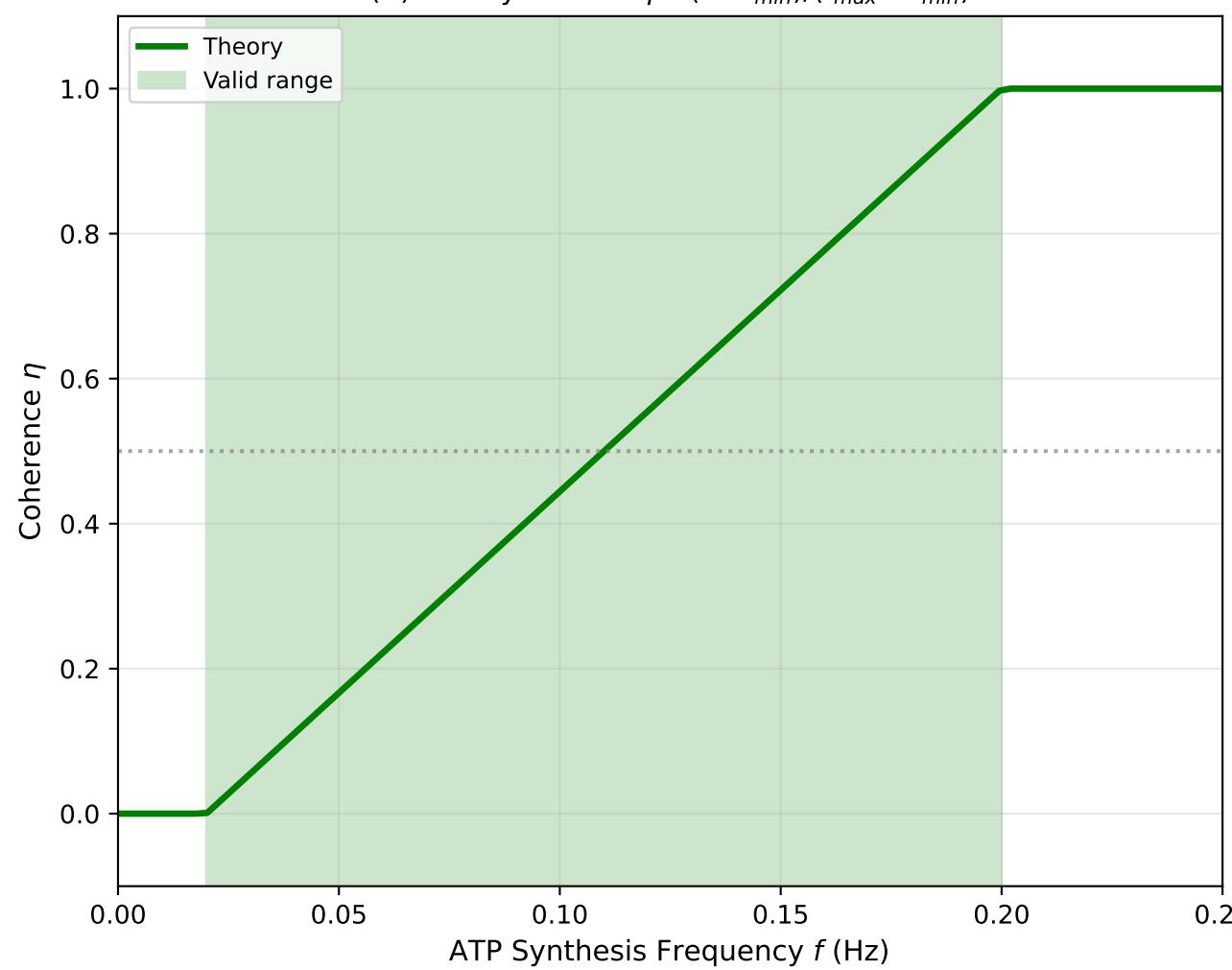
(A) Protein Folding:  $\eta = (k_{max} - k) / (k_{max} - k_{min})$



(B) Enzyme:  $\eta = (\log k_{cat} - \log k_{min}) / (\log k_{max} - \log k_{min})$



(C) ATP Synthesis:  $\eta = (f - f_{min}) / (f_{max} - f_{min})$



(D) Ion Channel:  $\eta = 1 - 2|P_o - P_{o,opt}|$

