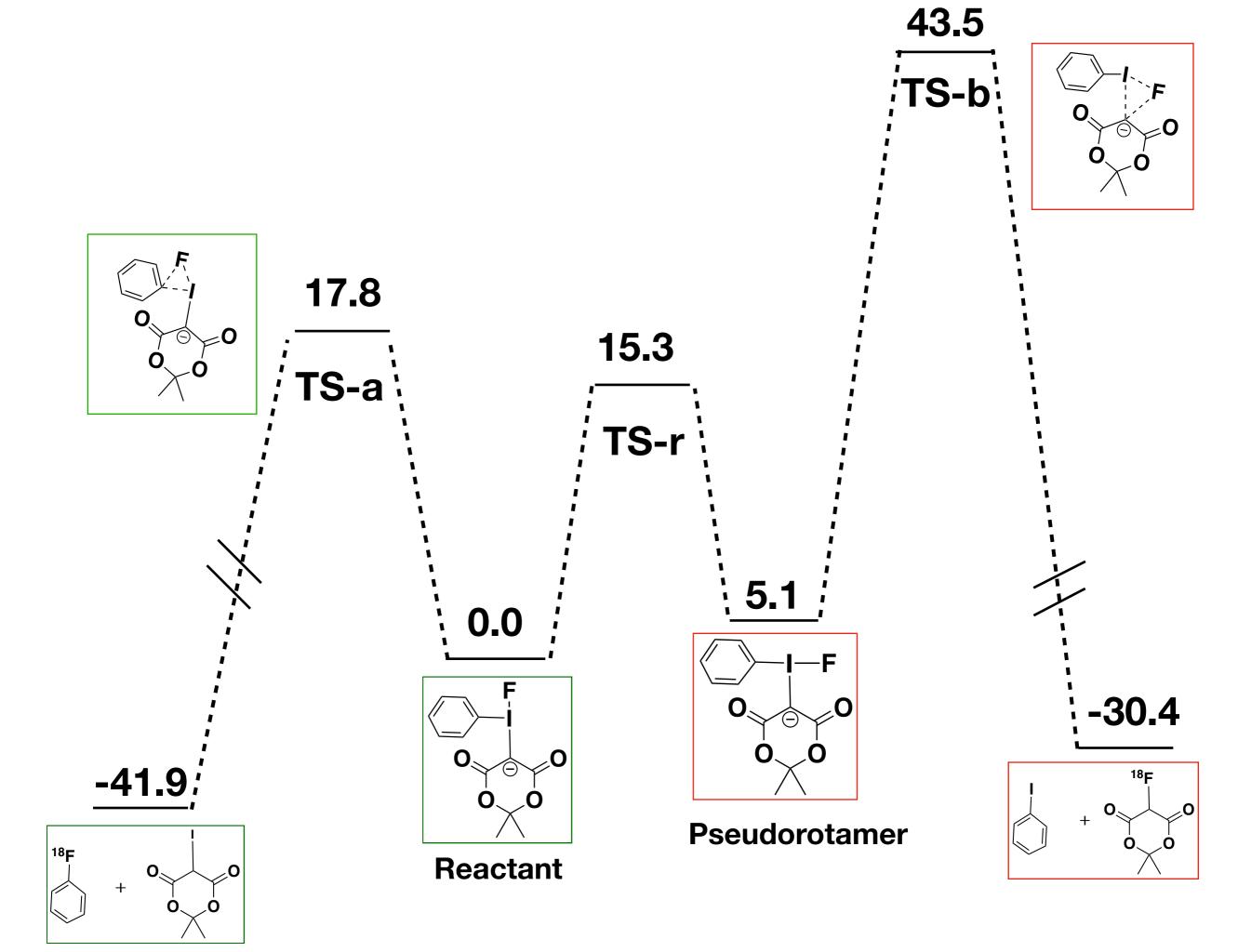
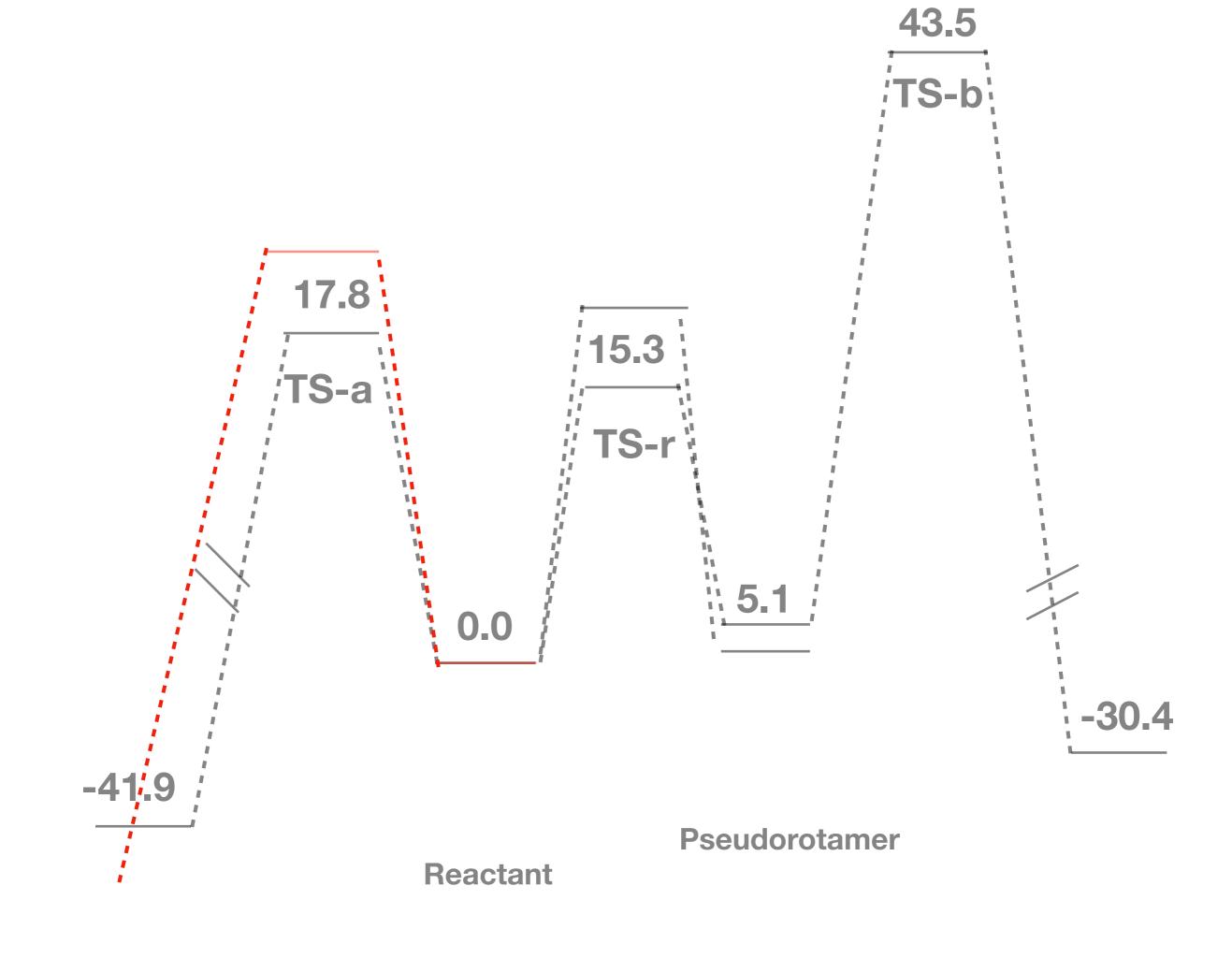
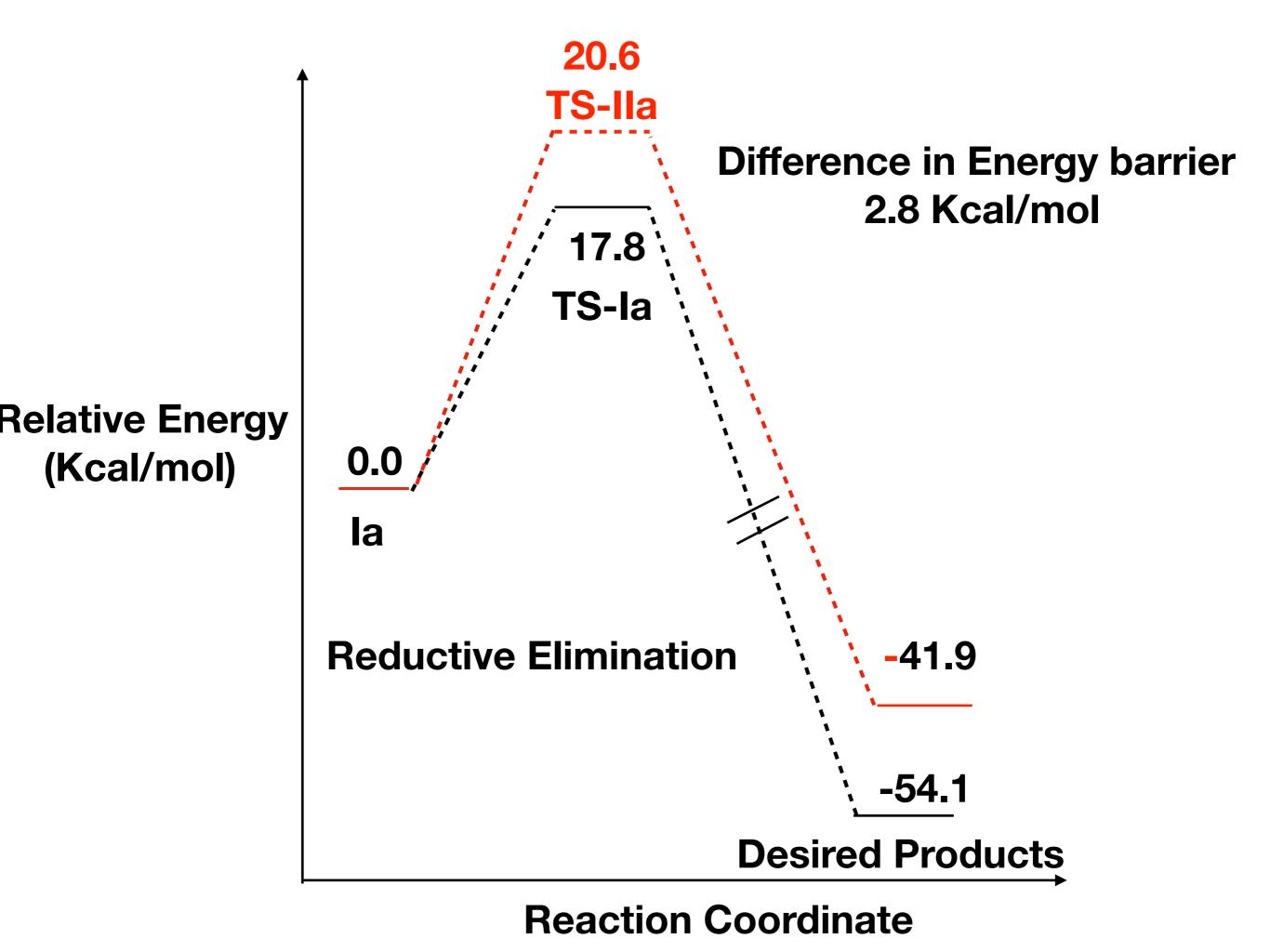


(Kcal/mol)

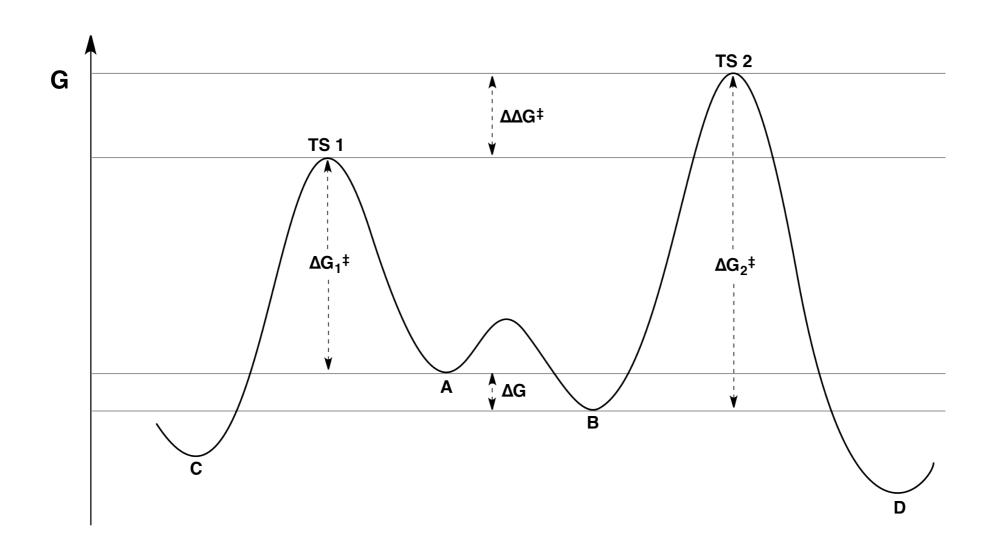
Reaction Coordinate







$$C \quad \stackrel{\mathsf{K}_1}{\longleftarrow} \quad A \quad \stackrel{\mathsf{K}}{\longmapsto} \quad D$$



Case I: More stable conformer reacts more quickly

Case III: both conformers react at the same rate

$$rac{\mathrm{[D]}}{\mathrm{[C]}} = rac{k_2}{k_1 K} = rac{e^{-\Delta G_2^{\ddagger}/RT}}{e^{-\Delta G_1^{\ddagger}/RT}e^{-\Delta G/RT}} = e^{-rac{\Delta \Delta G^{\ddagger}}{RT}}$$

Case II: Less stable conformer reacts more quickly

