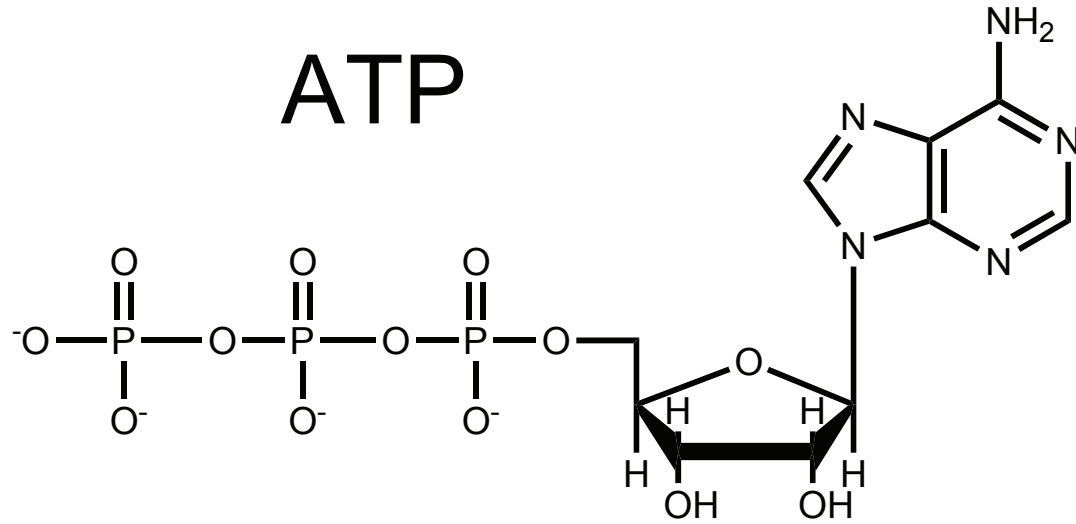
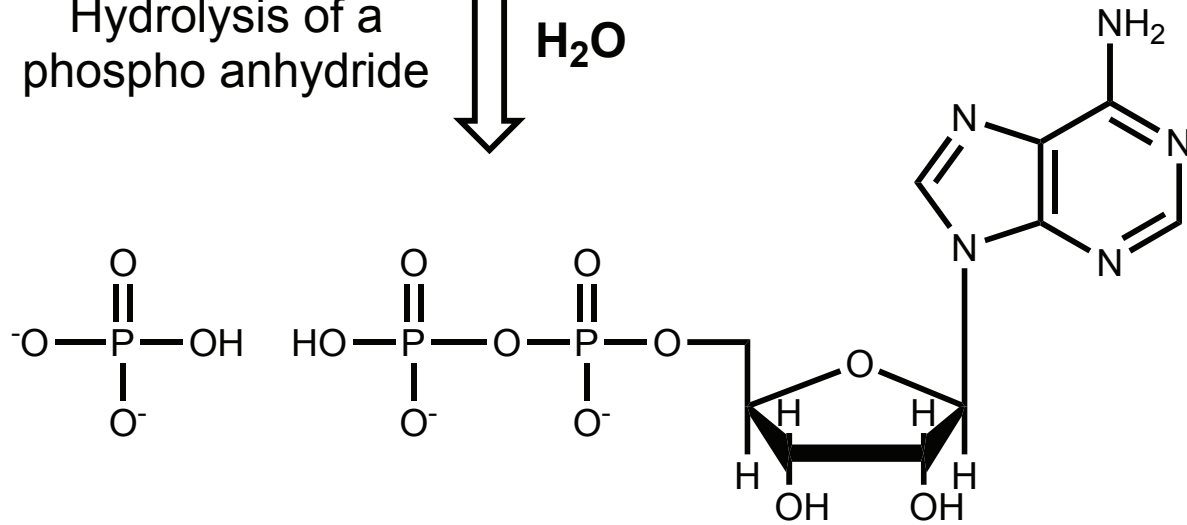


ATP



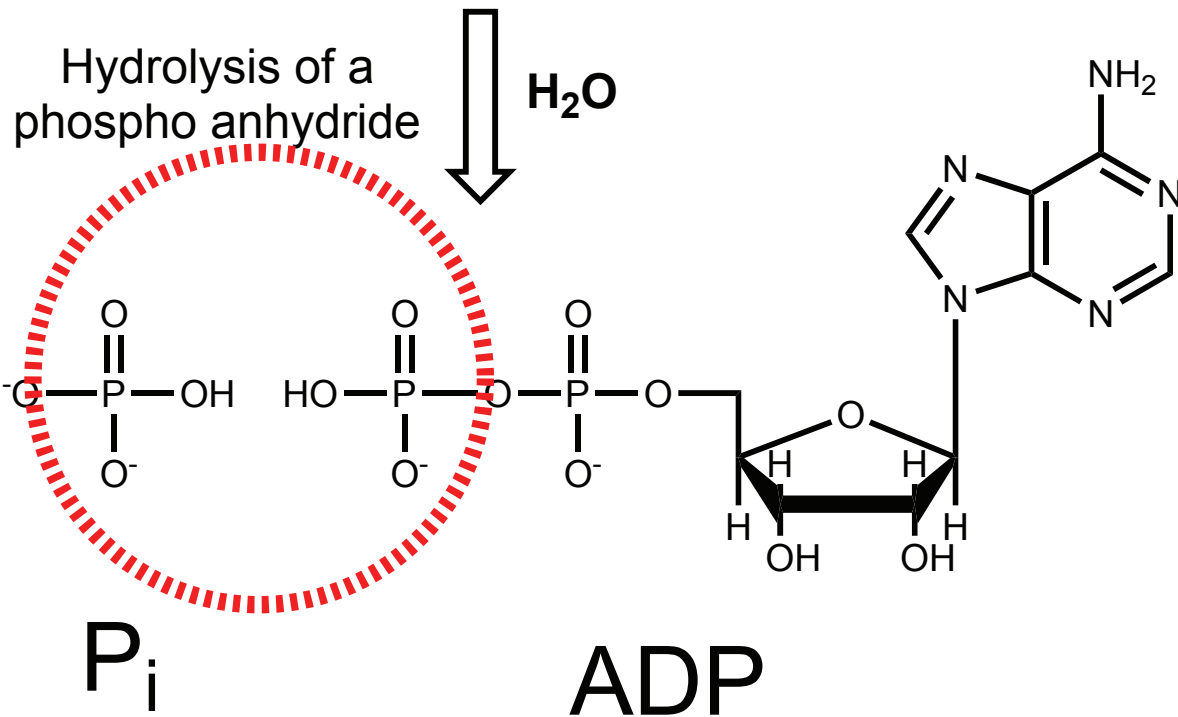
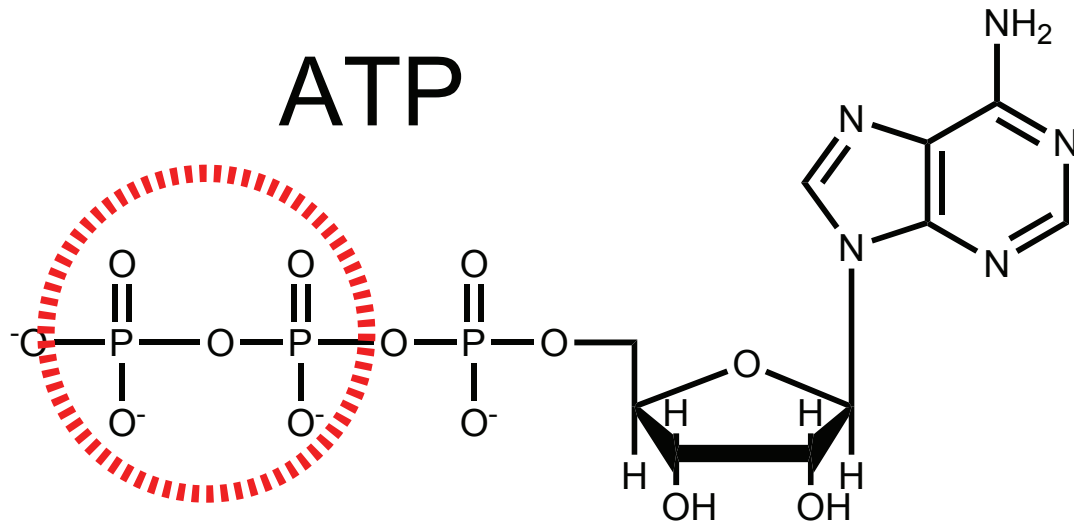
Hydrolysis of a
phospho anhydride \downarrow H_2O



P_i

ADP

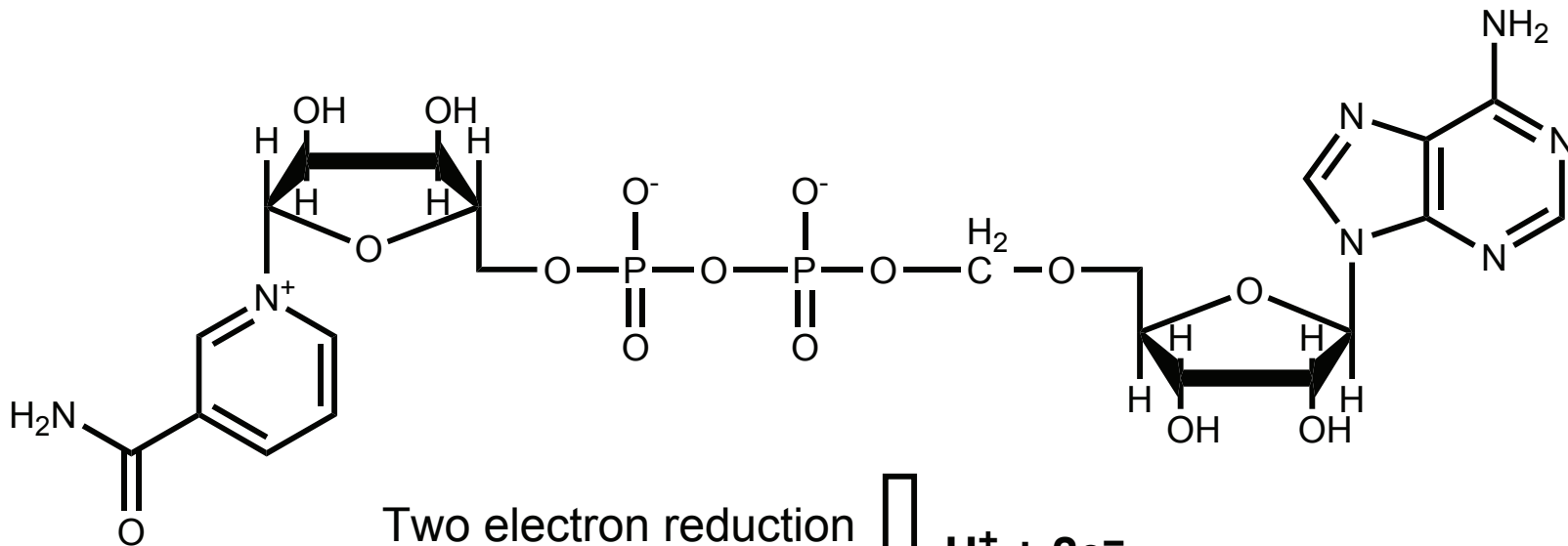
ATP



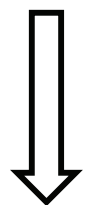
nicotinamide ribose

ADP

NAD^+

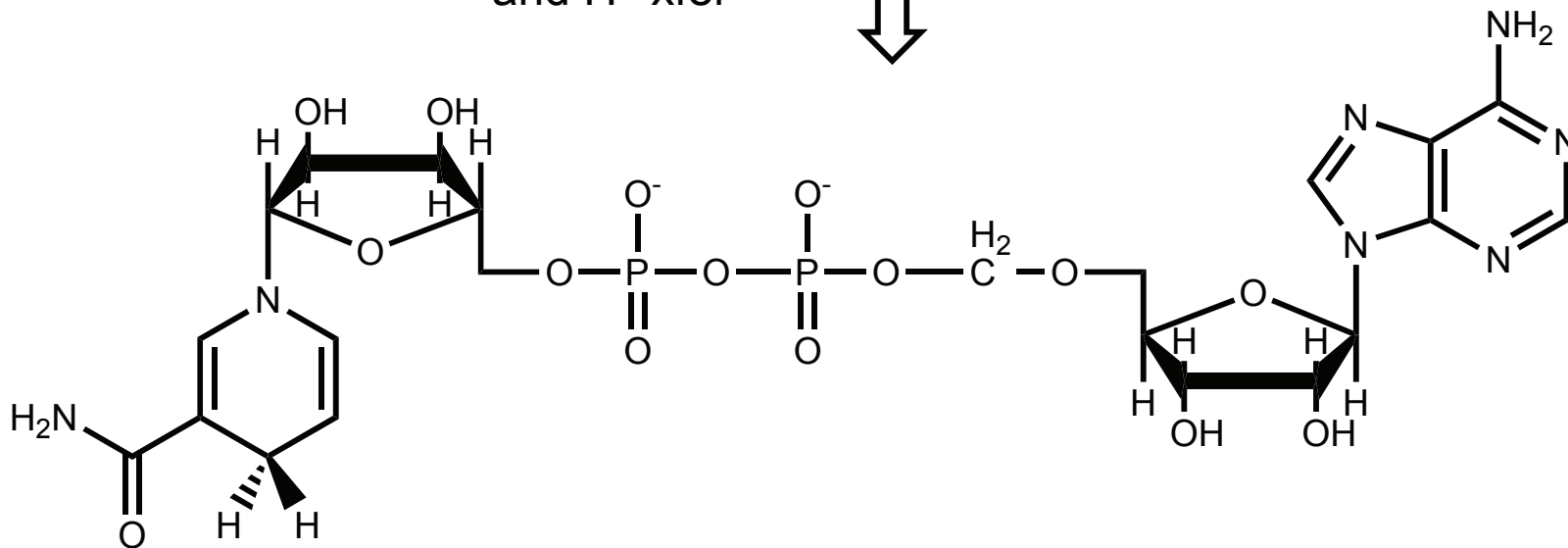


Two electron reduction
and H^+ xfer



$\text{H}^+ + 2\text{e}^-$

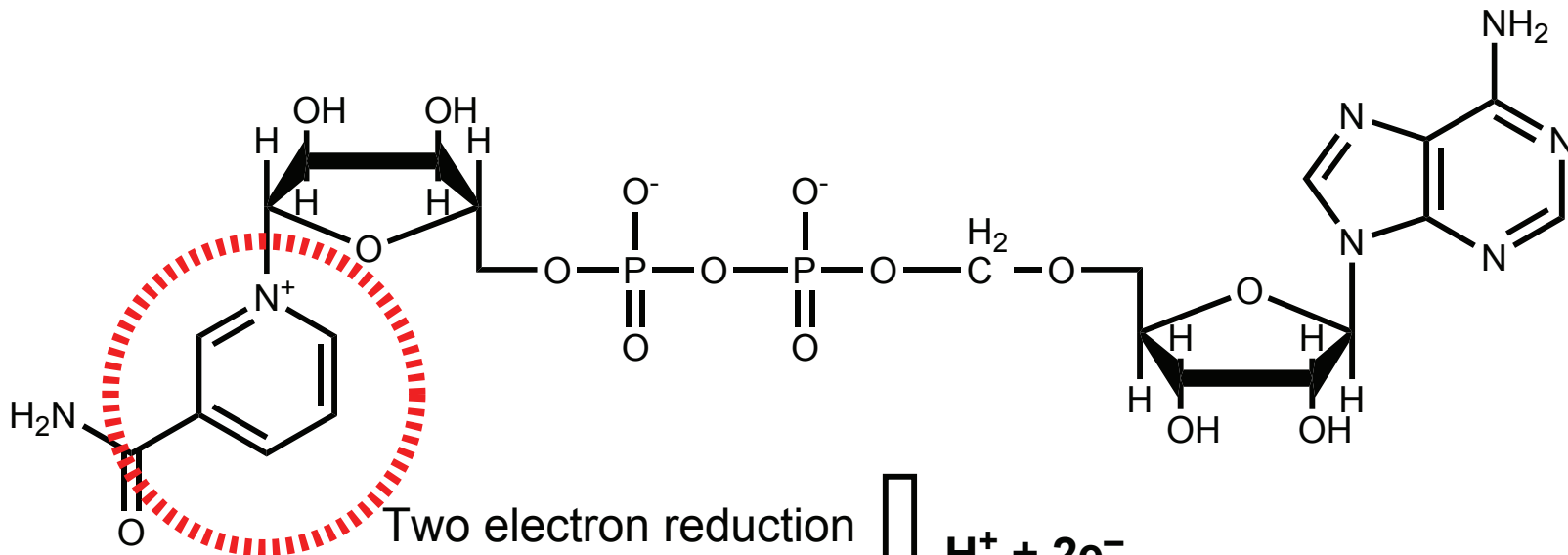
NADH_2



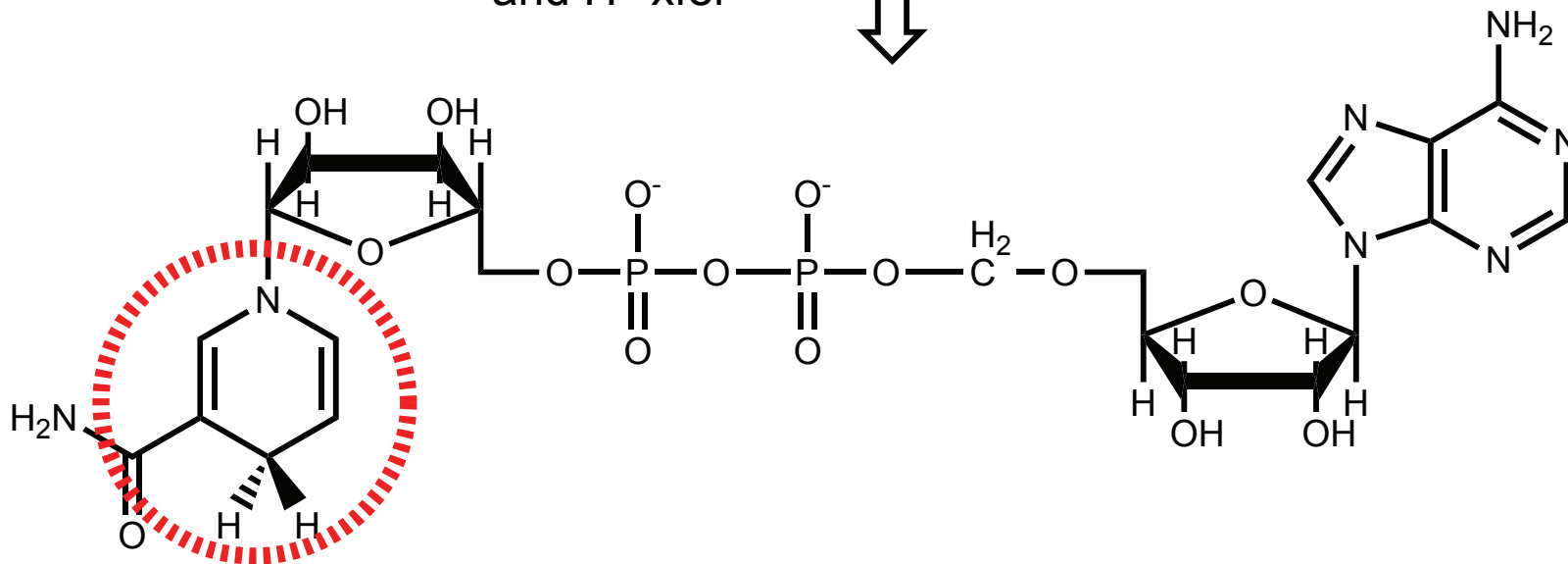
nicotinamide ribose

ADP

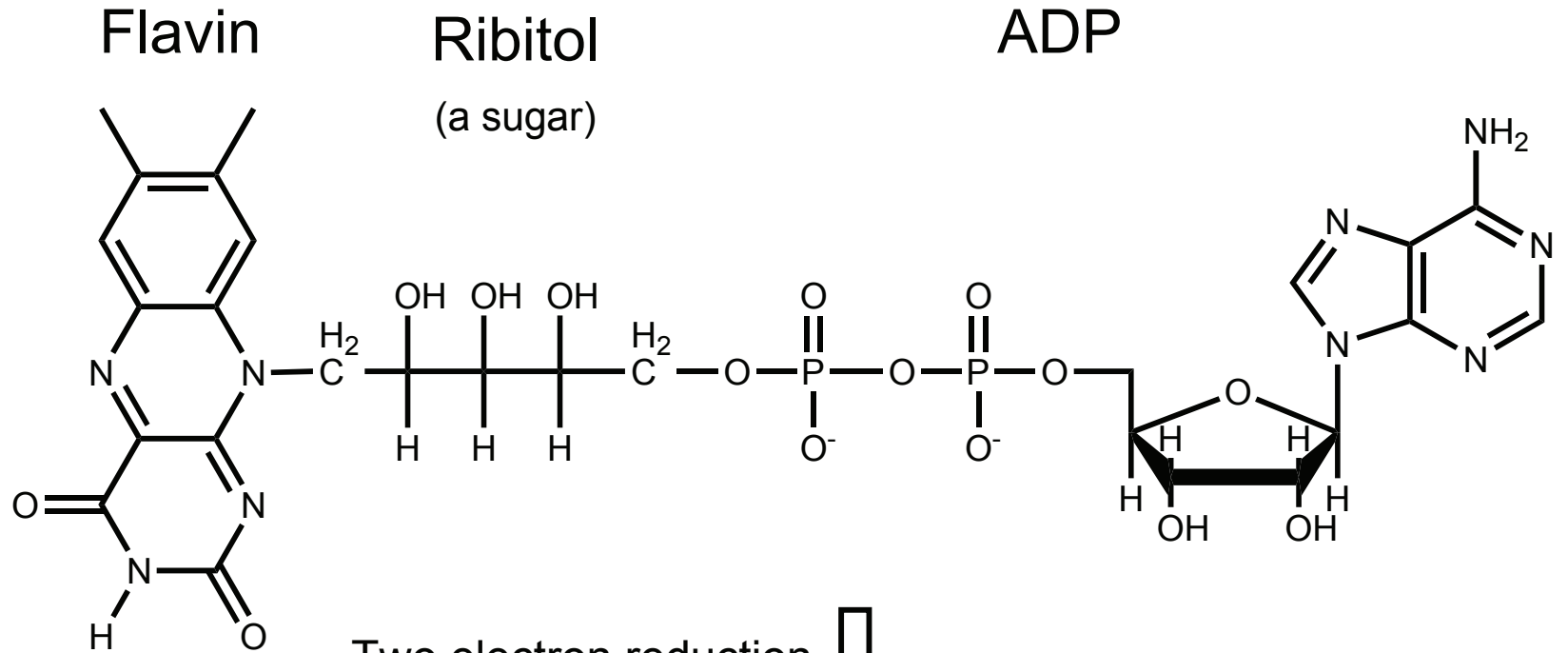
NAD^+



NADH_2



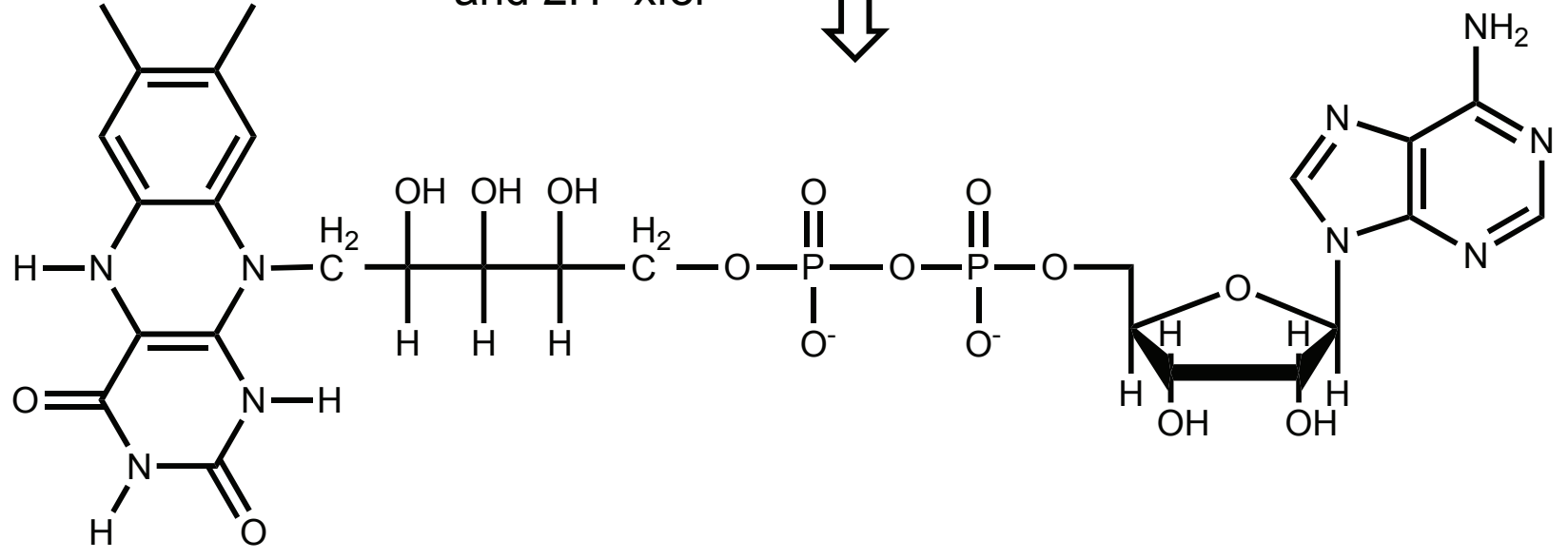
FAD

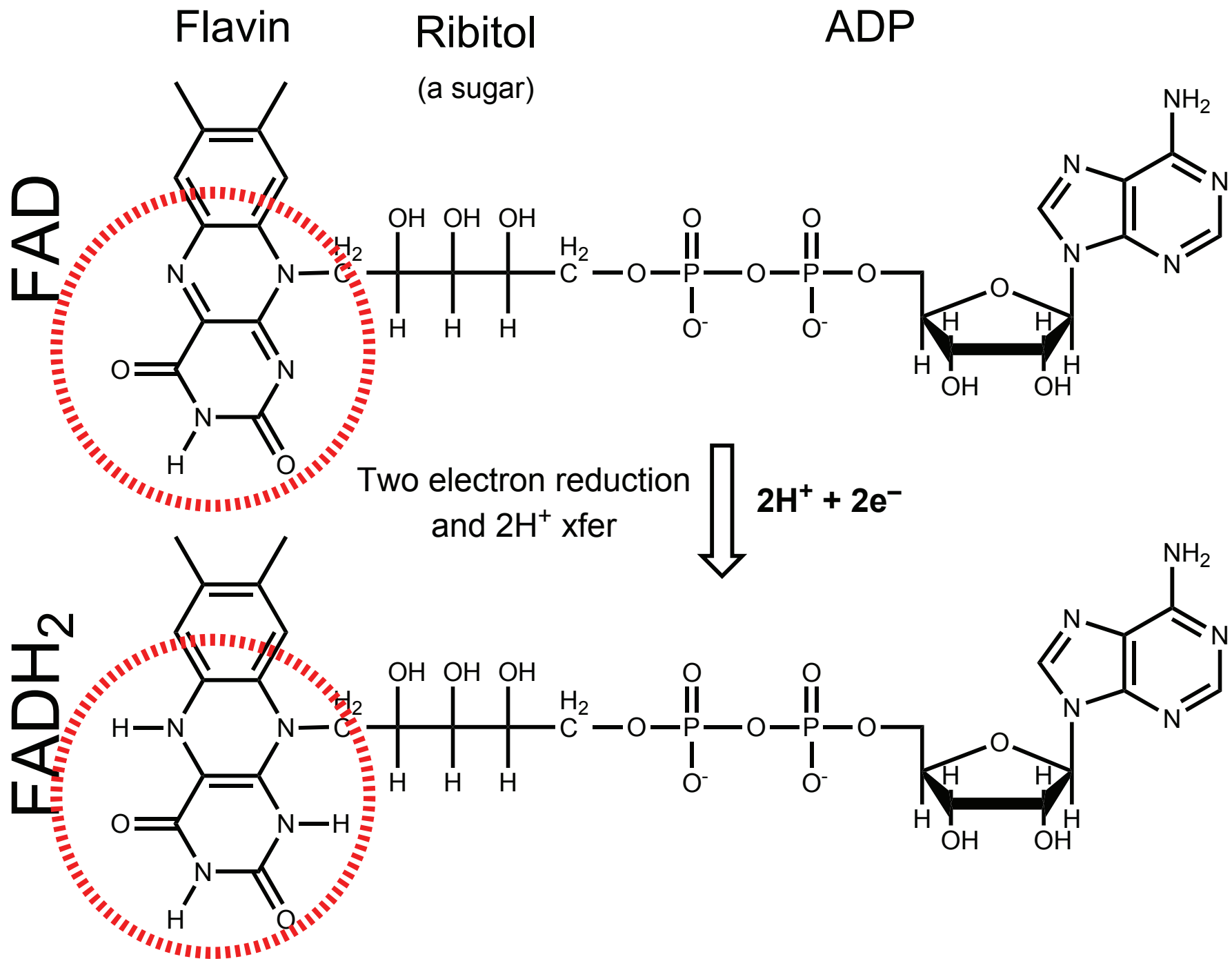


Two electron reduction
and 2H⁺ xfer

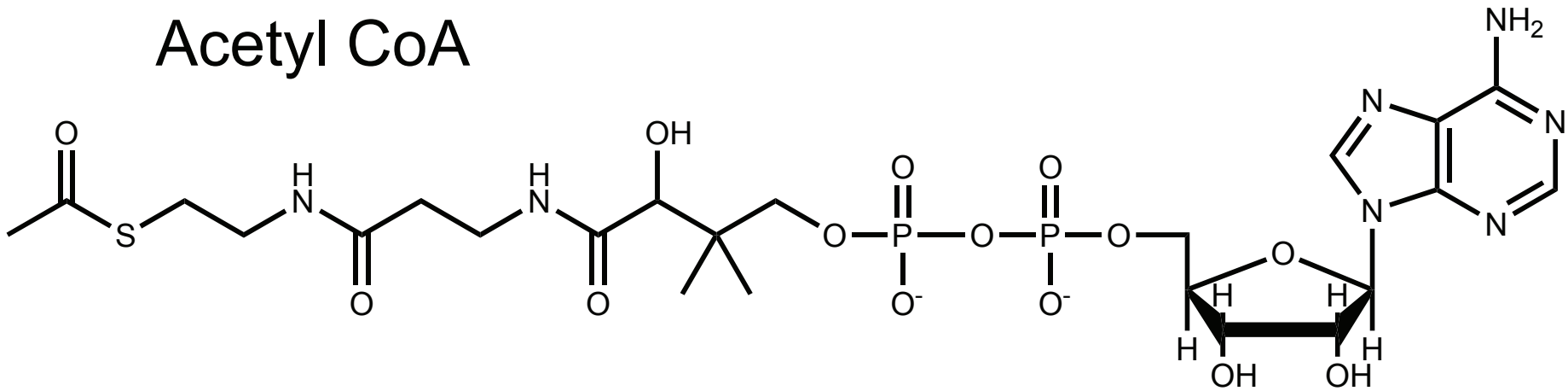
2H⁺ + 2e⁻

FADH₂

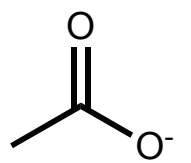




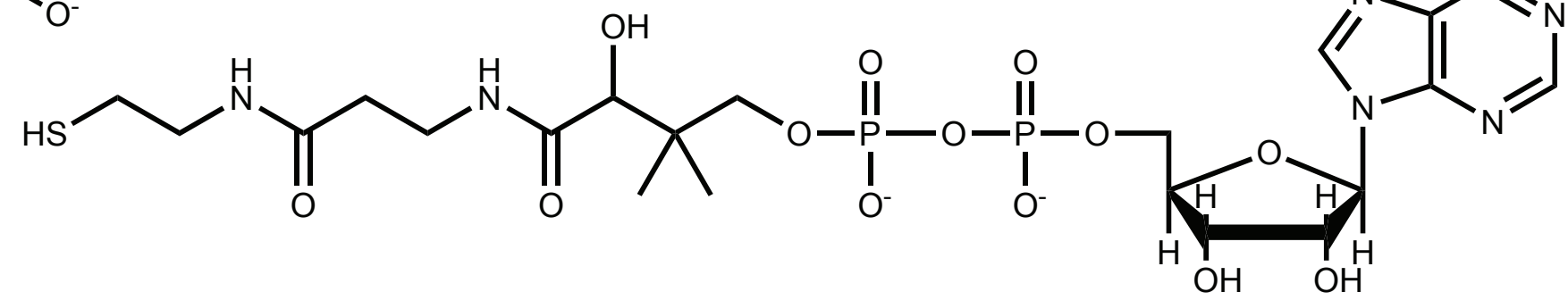
Acetyl CoA



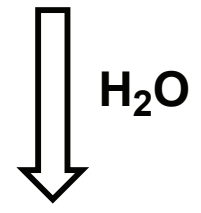
Acetate



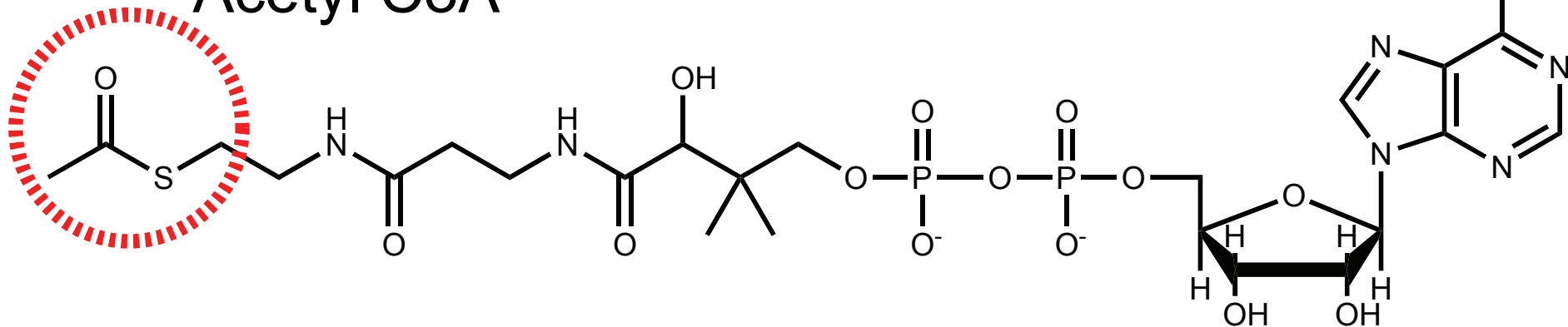
CoA



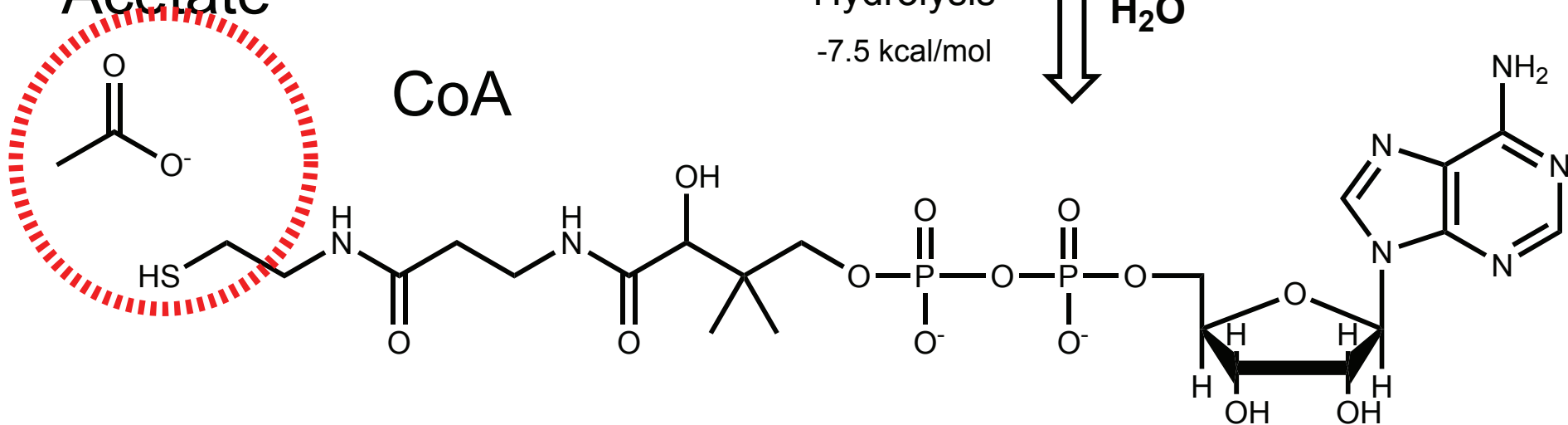
Hydrolysis
-7.5 kcal/mol



Acetyl CoA



Acetate



Hydrolysis
-7.5 kcal/mol

