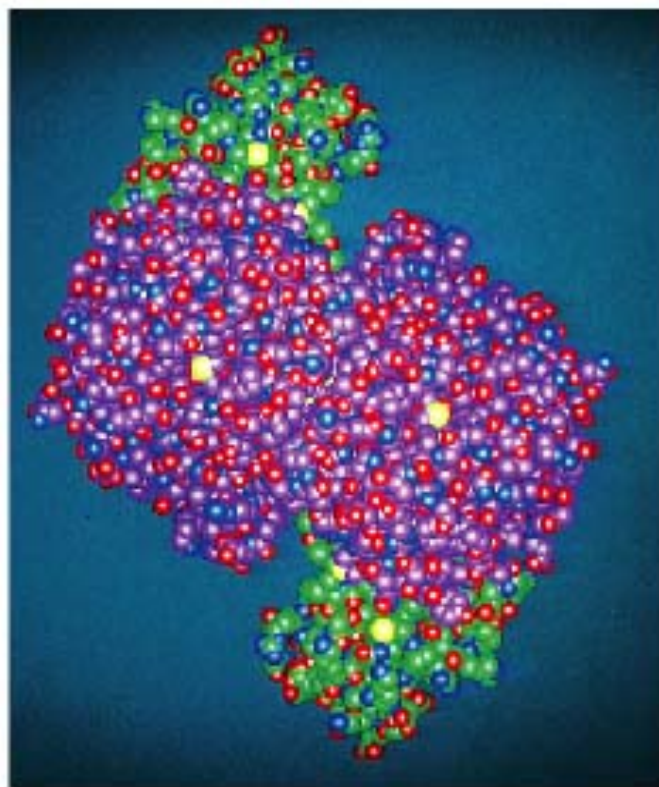
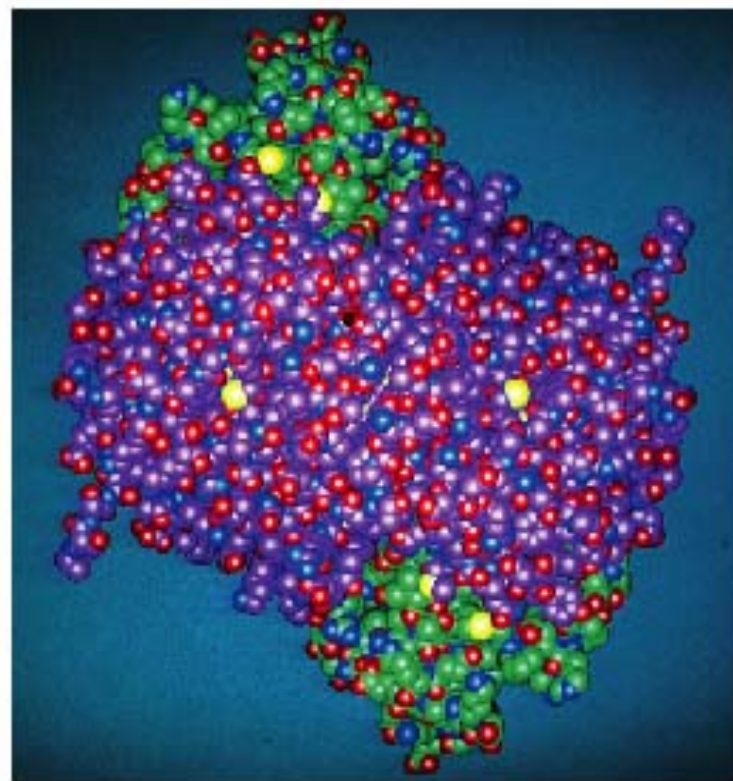


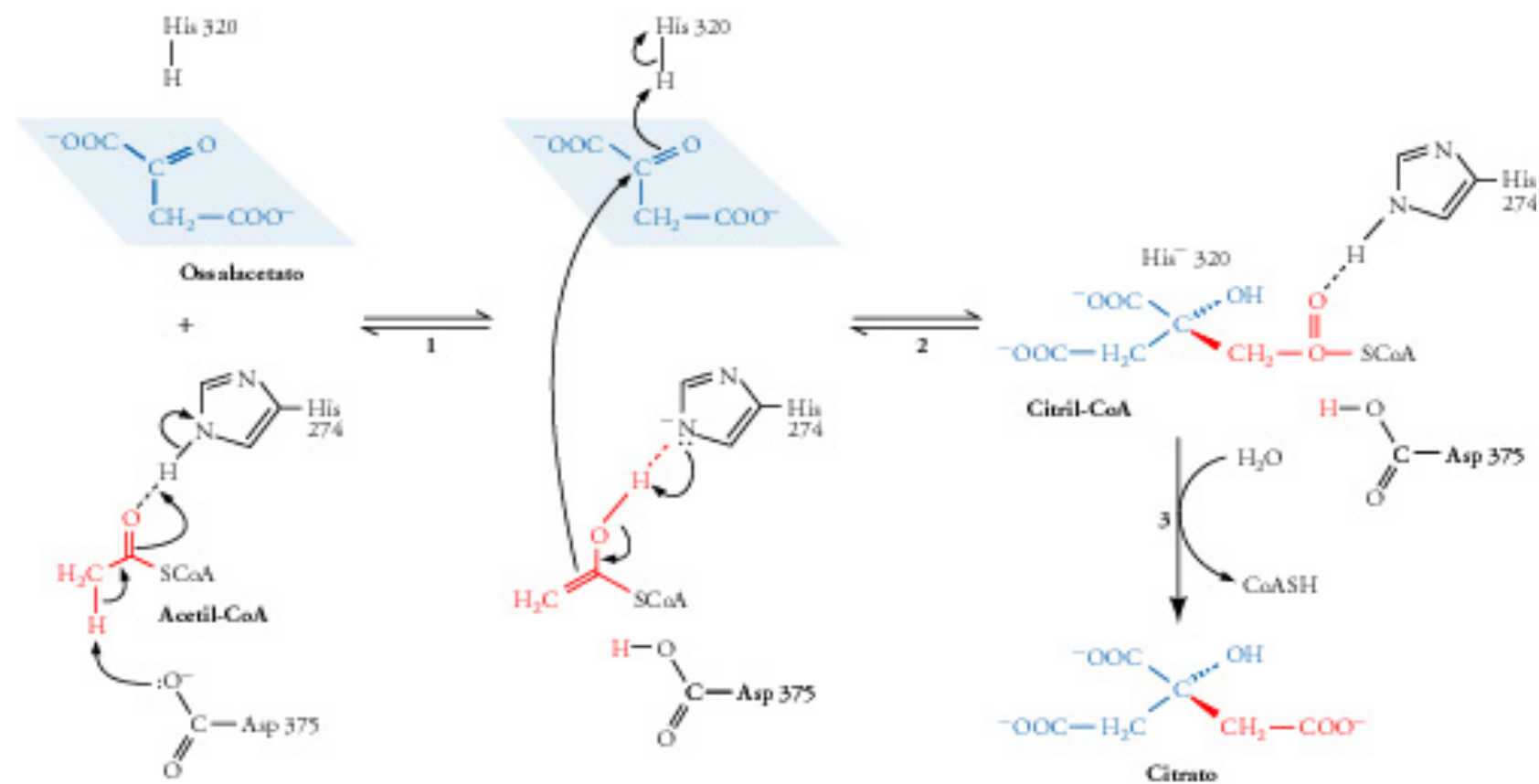
$$\Delta G'^{\circ} = -32.2 \text{ kJ/mol}$$

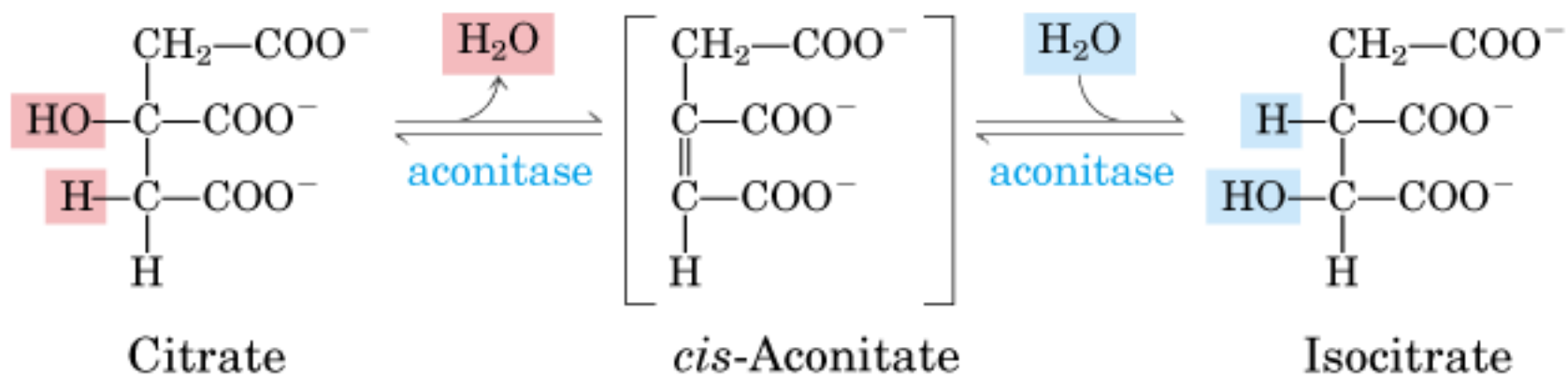


(a)

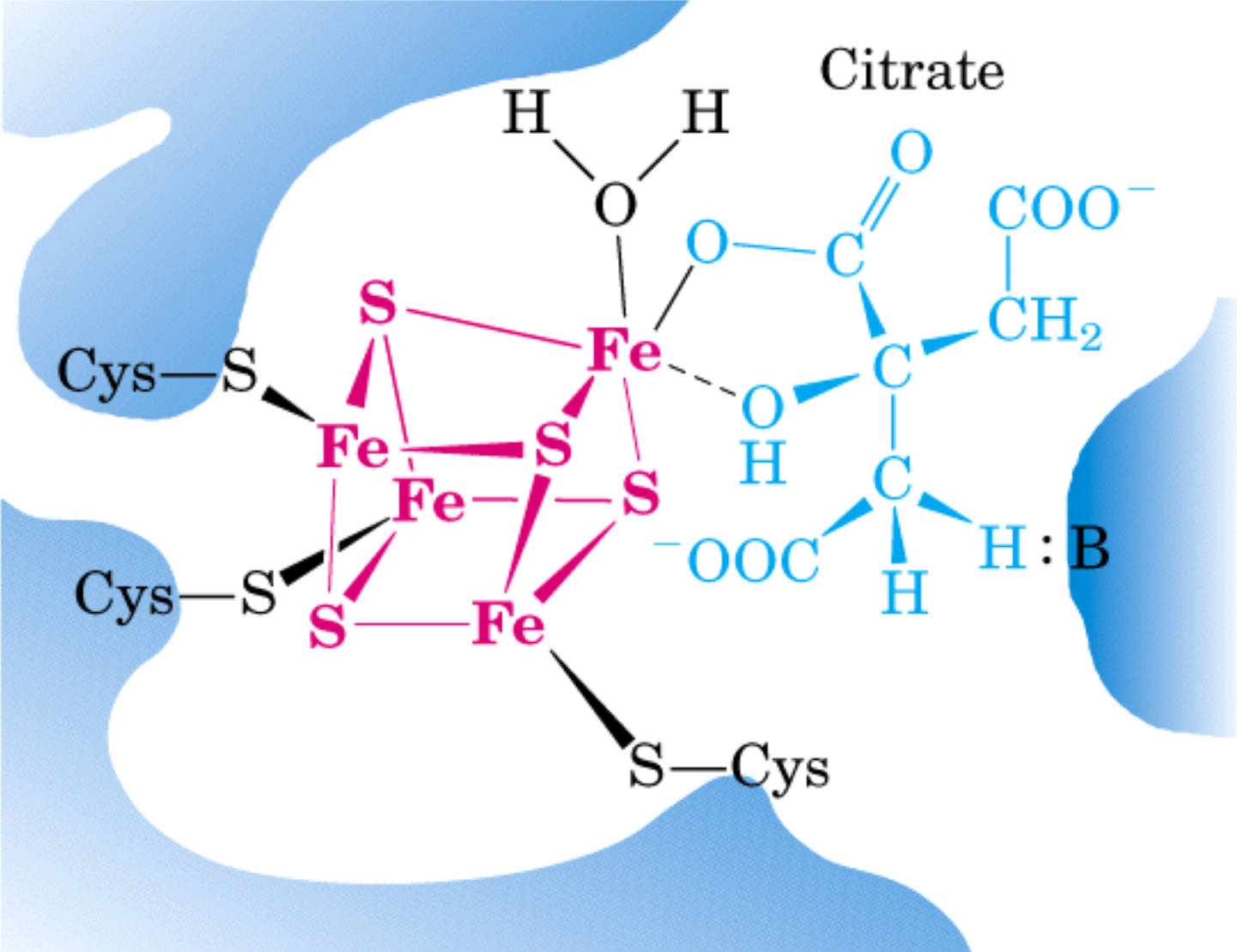


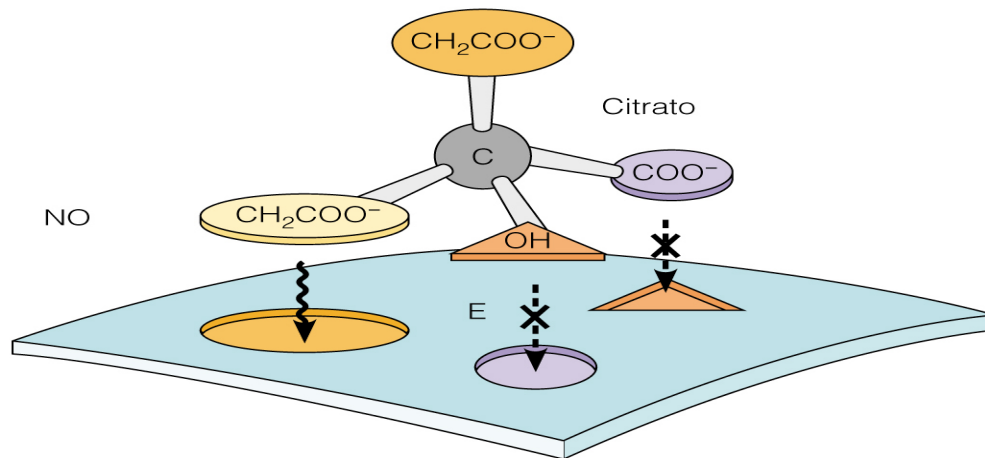
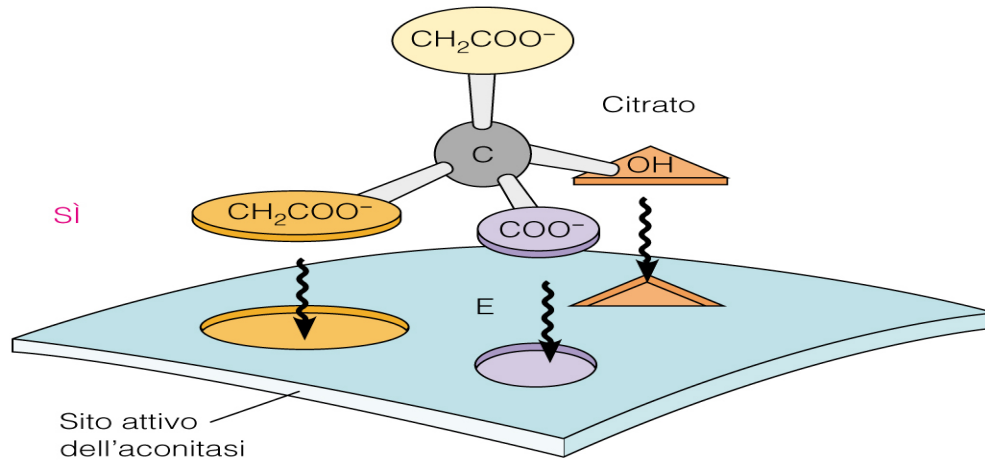
(b)



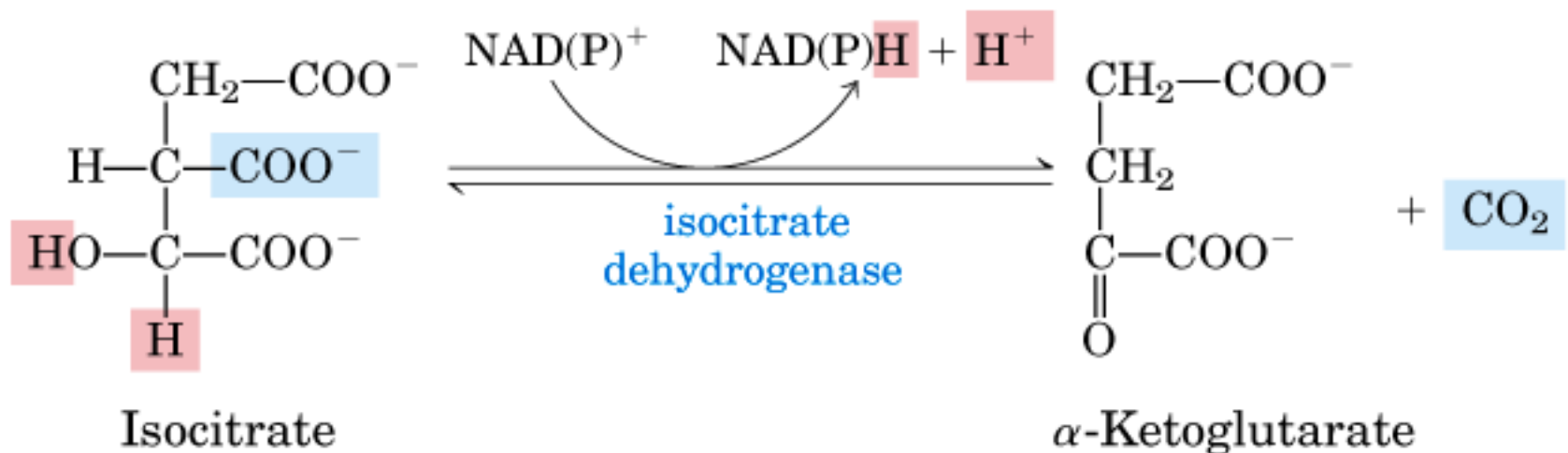


$$\Delta G'^{\circ} = 13.3 \text{ kJ/mol}$$

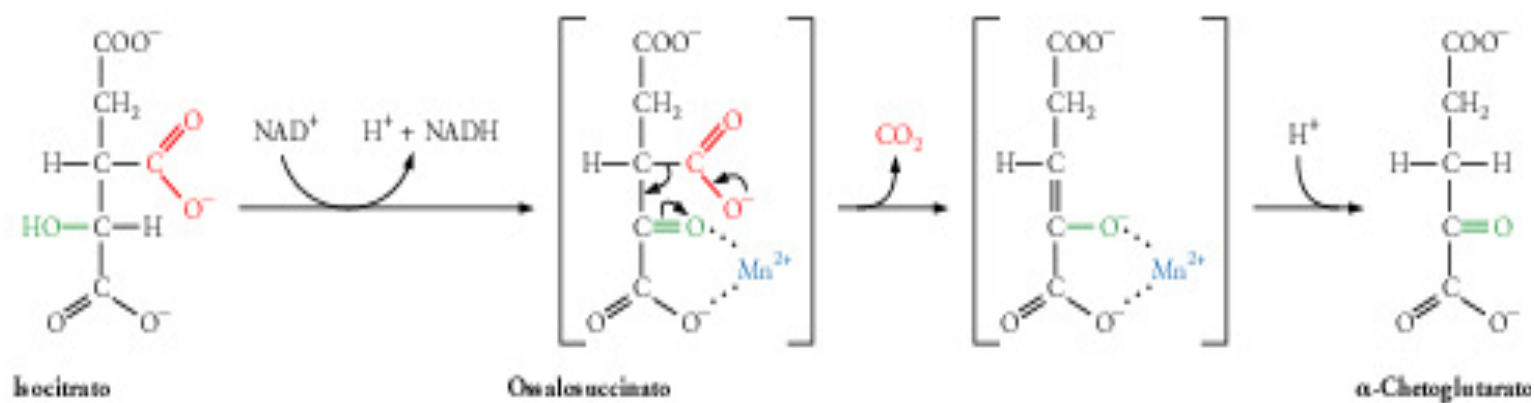


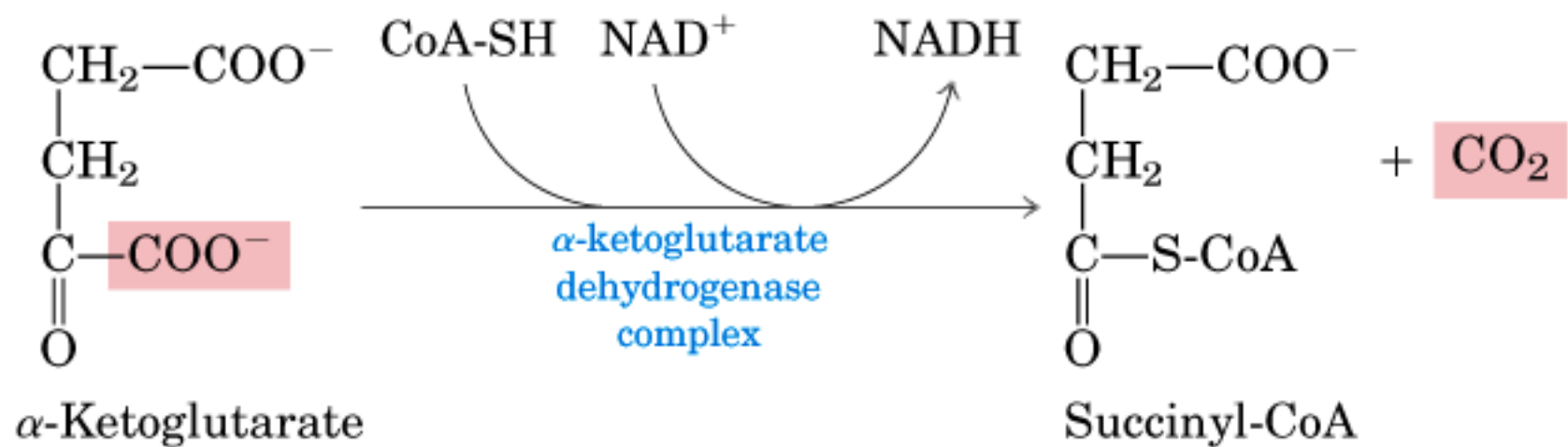


(b)

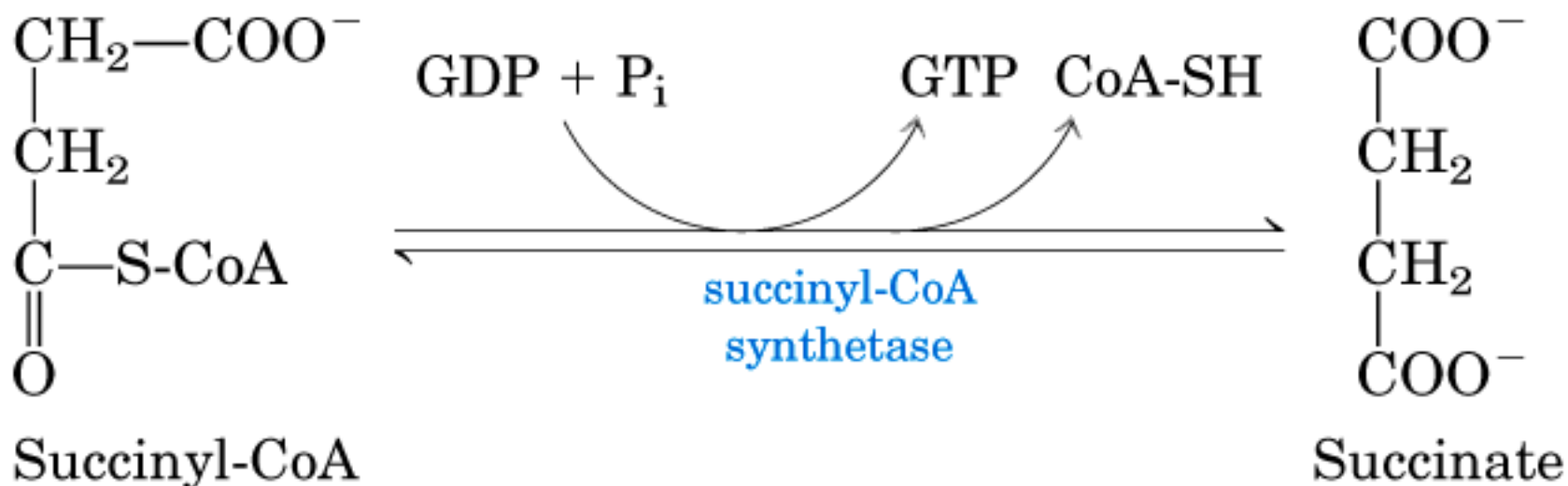


$$\Delta G'^{\circ} = -20.9 \text{ kJ/mol}$$

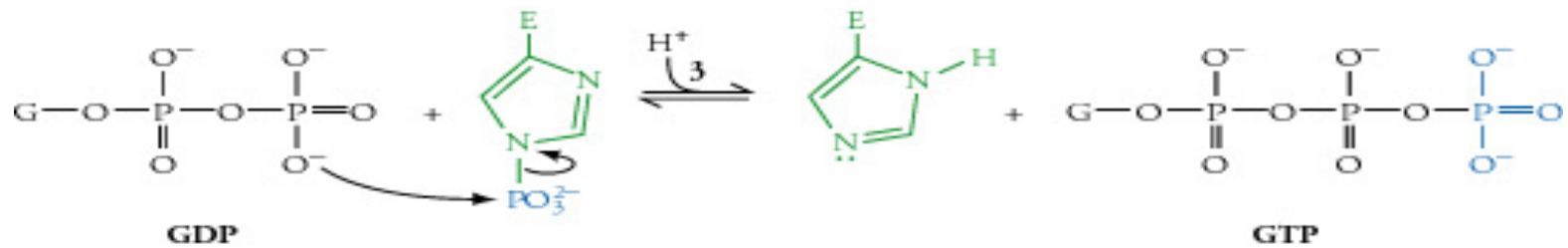
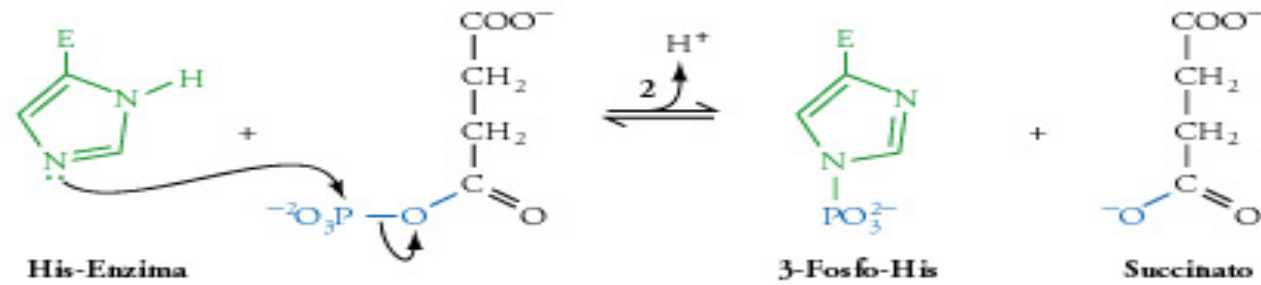
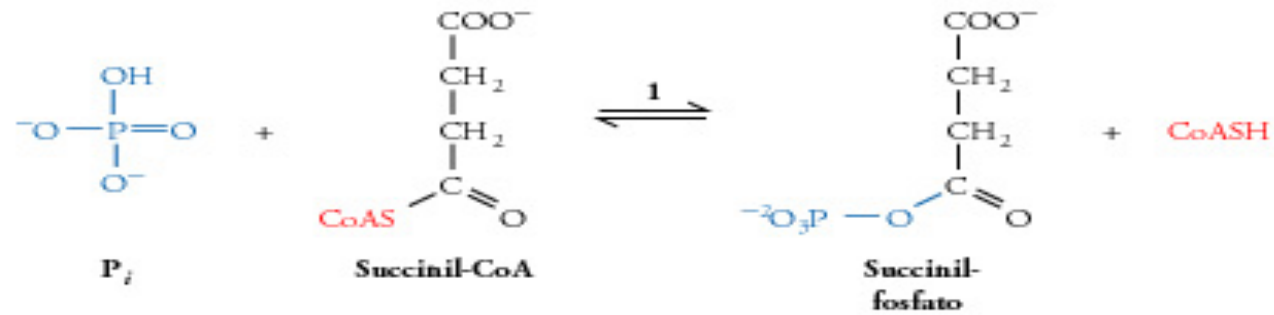


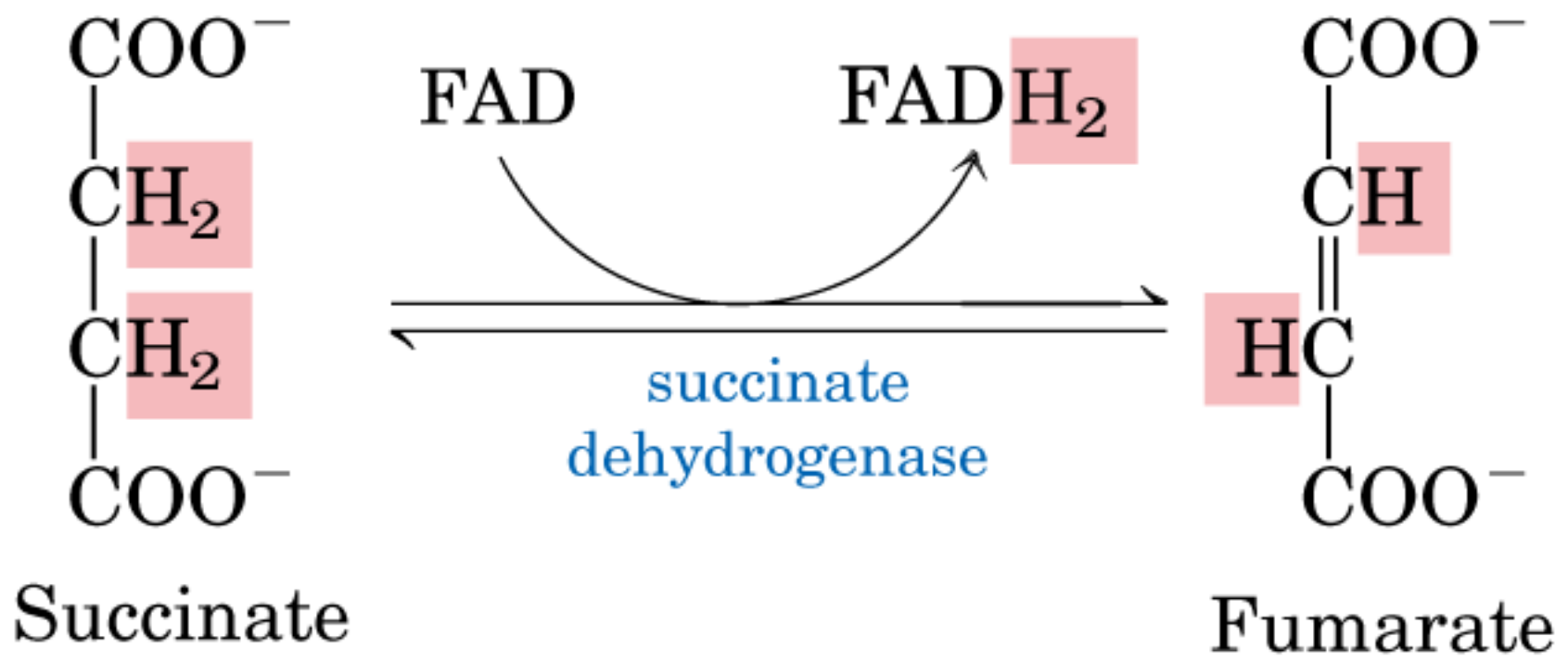


$$\Delta G'^{\circ} = -33.5 \text{ kJ/mol}$$

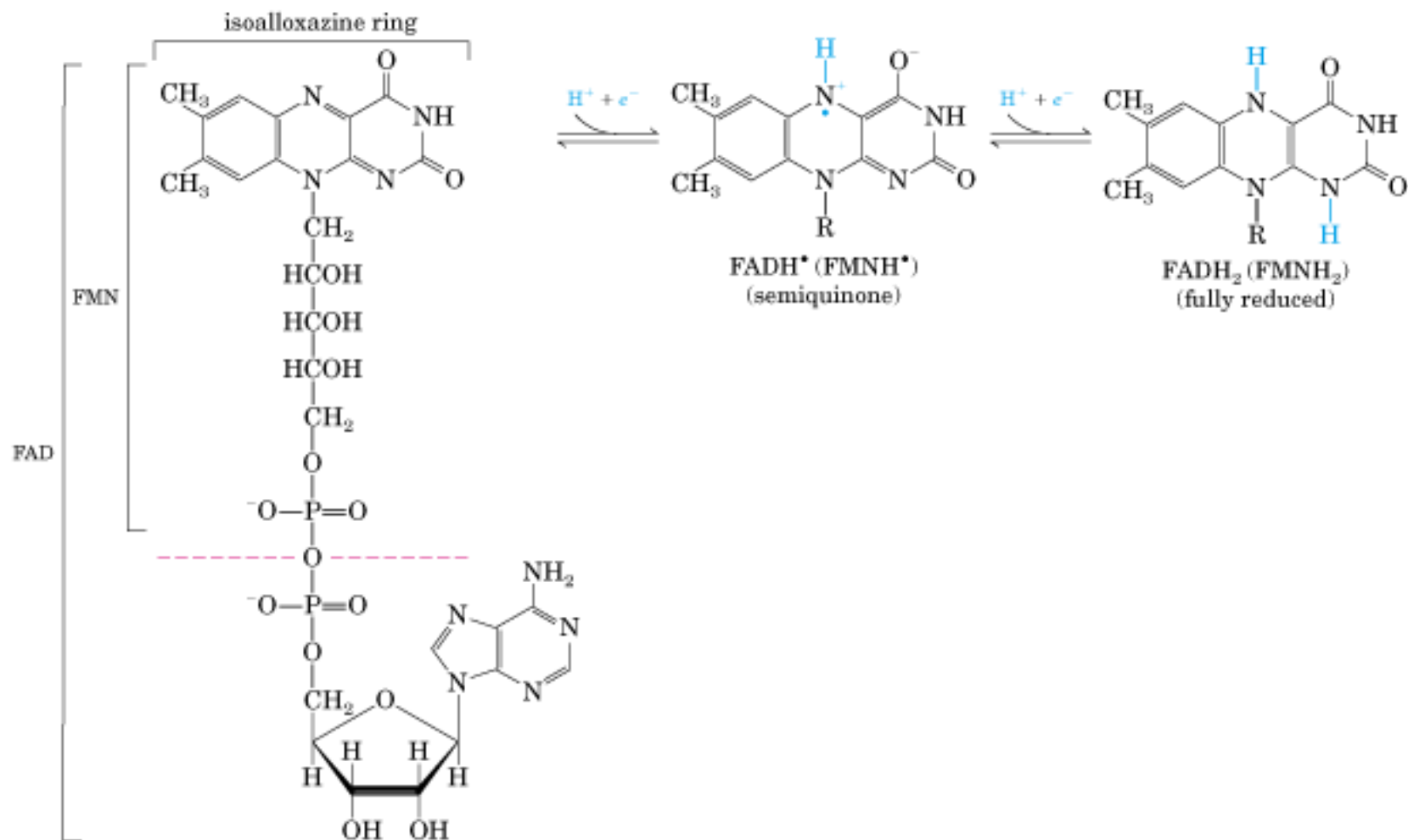


$$\Delta G'^{\circ} = -2.9 \text{ kJ/mol}$$





$$\Delta G'^{\circ} = 0 \text{ kJ/mol}$$



Flavin adenine dinucleotide (FAD) and
flavin mononucleotide (FMN)

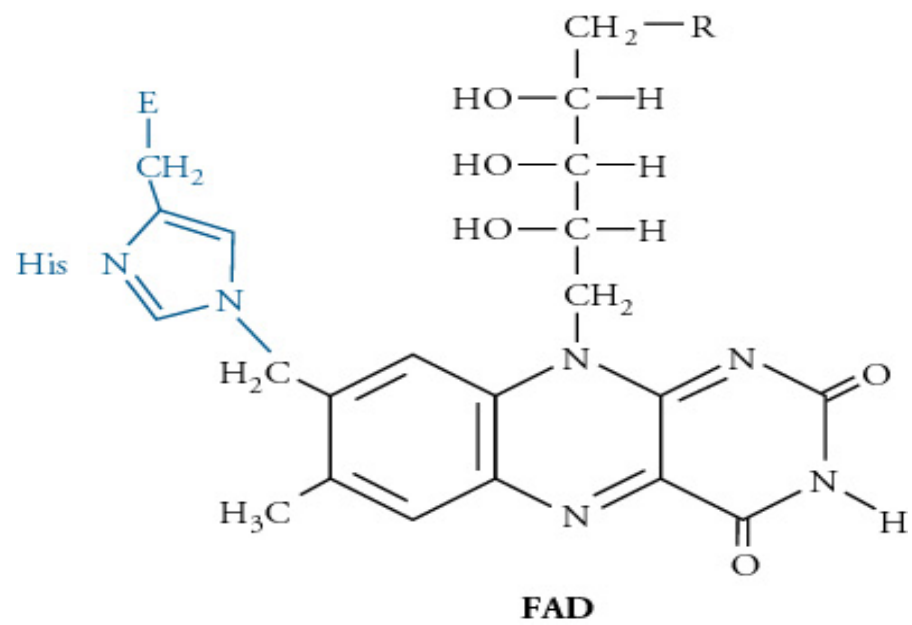
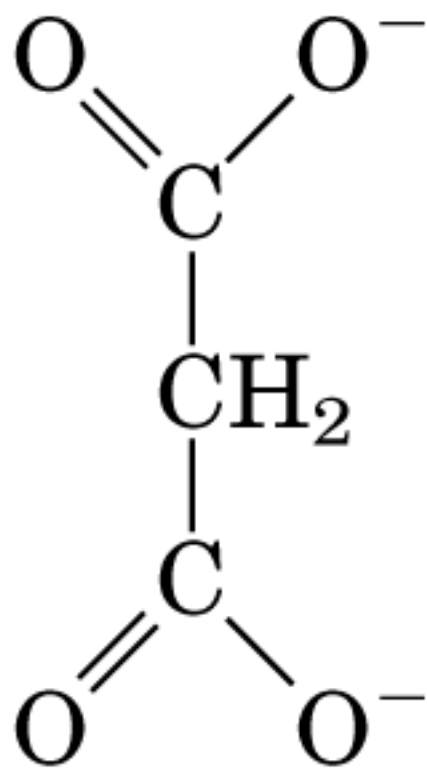


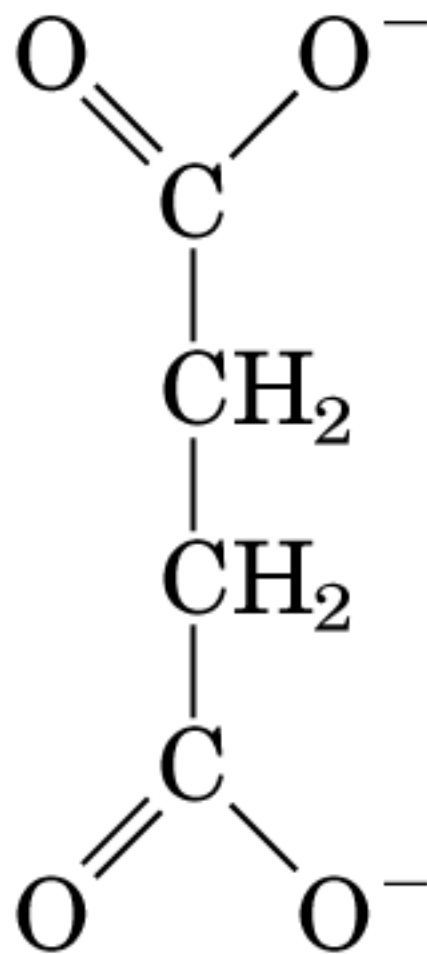
table 14-9

Some Enzymes (Flavoproteins) That Employ Flavin Nucleotide Coenzymes

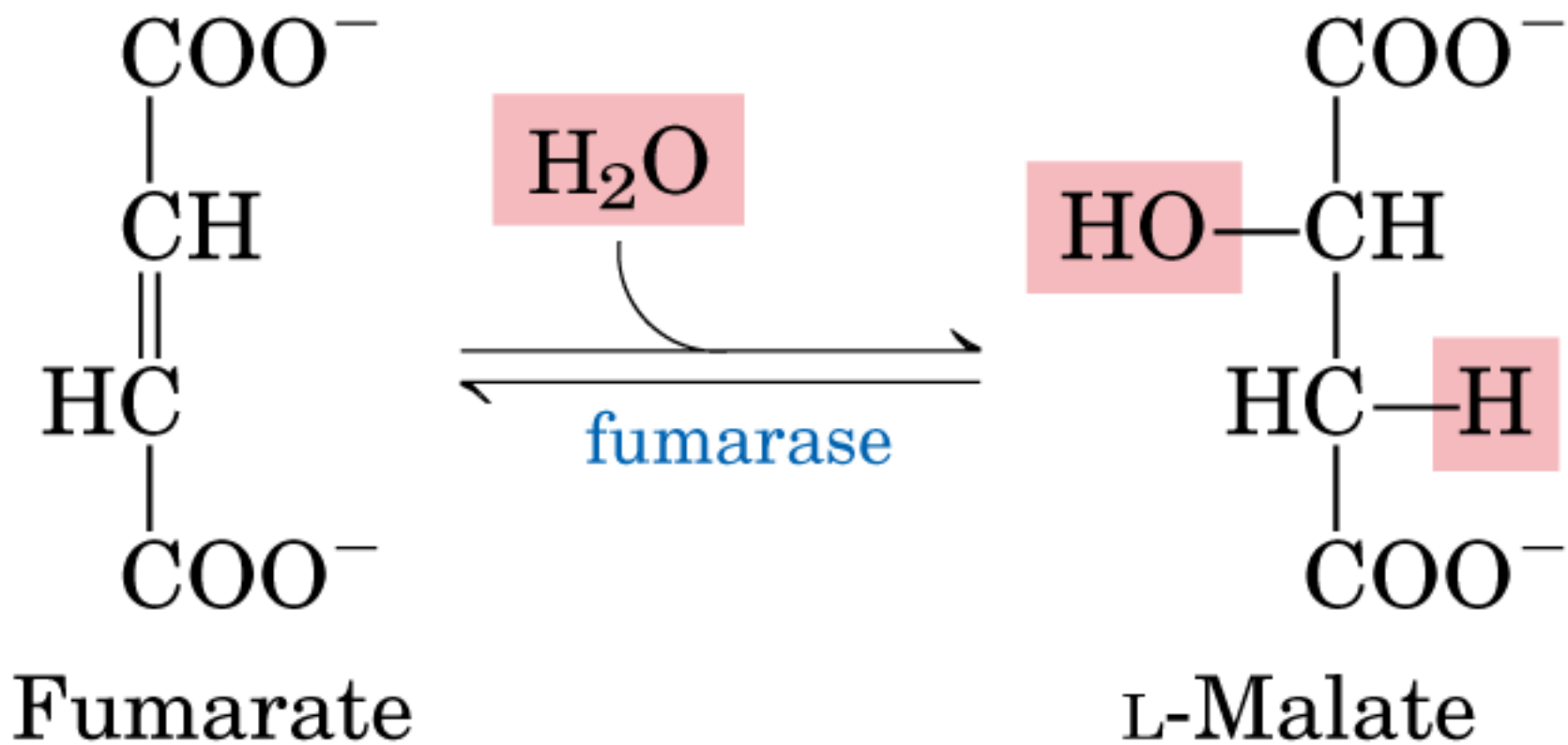
Enzyme	Flavin nucleotide
Fatty acyl-CoA dehydrogenase	FAD
Dihydrolipoyl dehydrogenase	FAD
Succinate dehydrogenase	FAD
Glycerol 3-phosphate dehydrogenase	FAD
Thioredoxin reductase	FAD
NADH dehydrogenase (Complex I)	FMN
Glycolate dehydrogenase	FMN



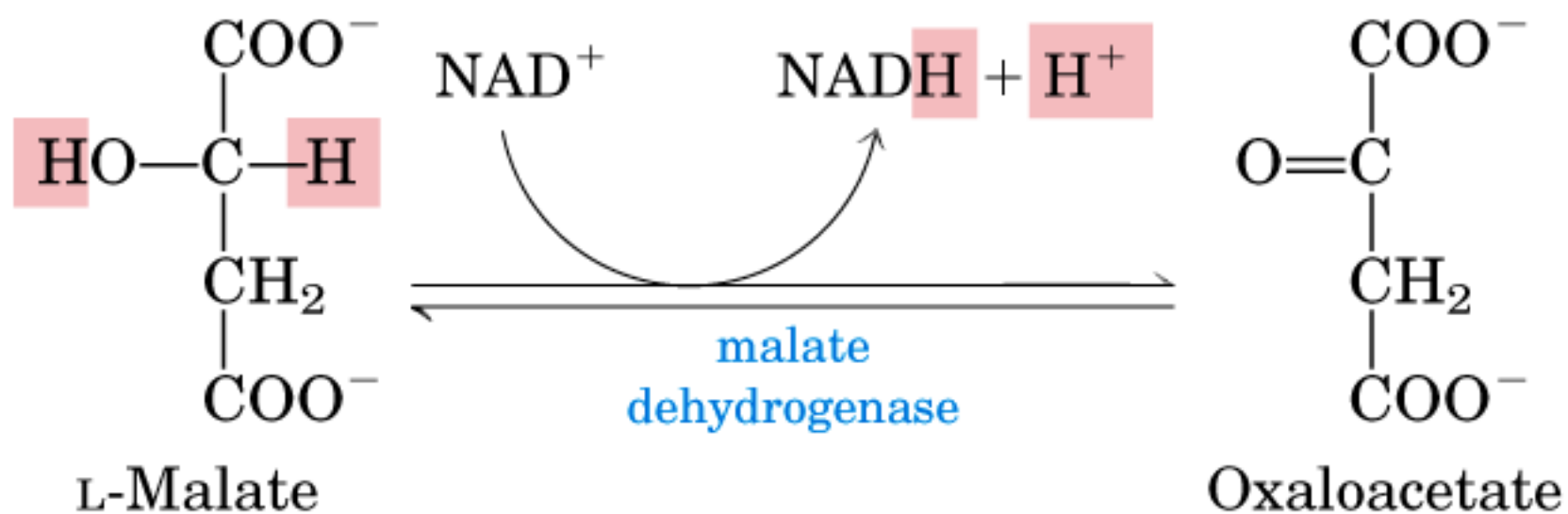
Malonate



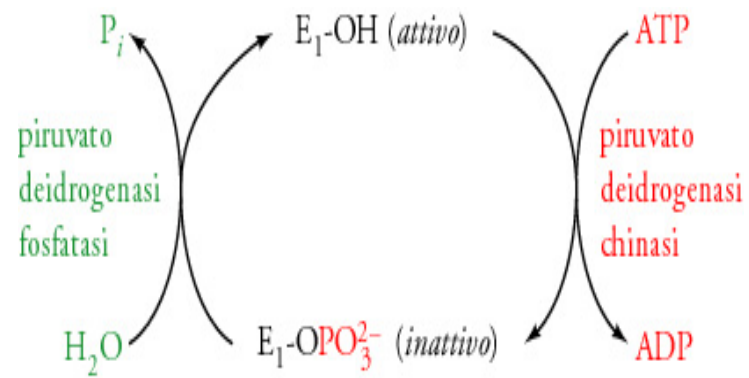
Succinate

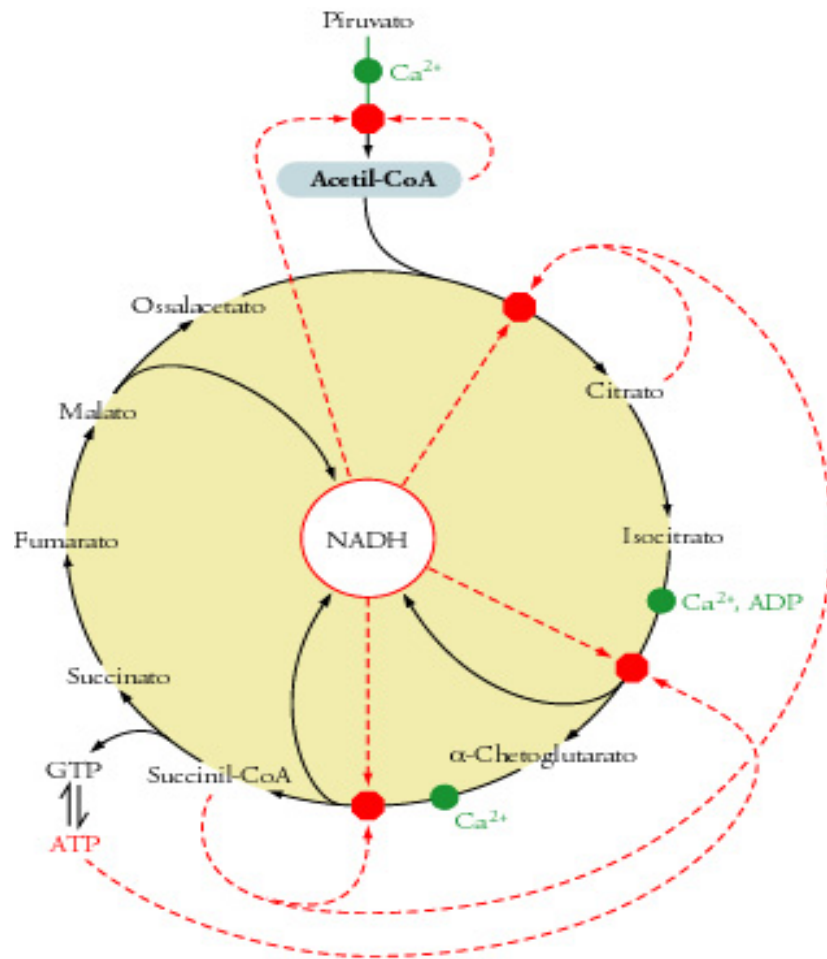


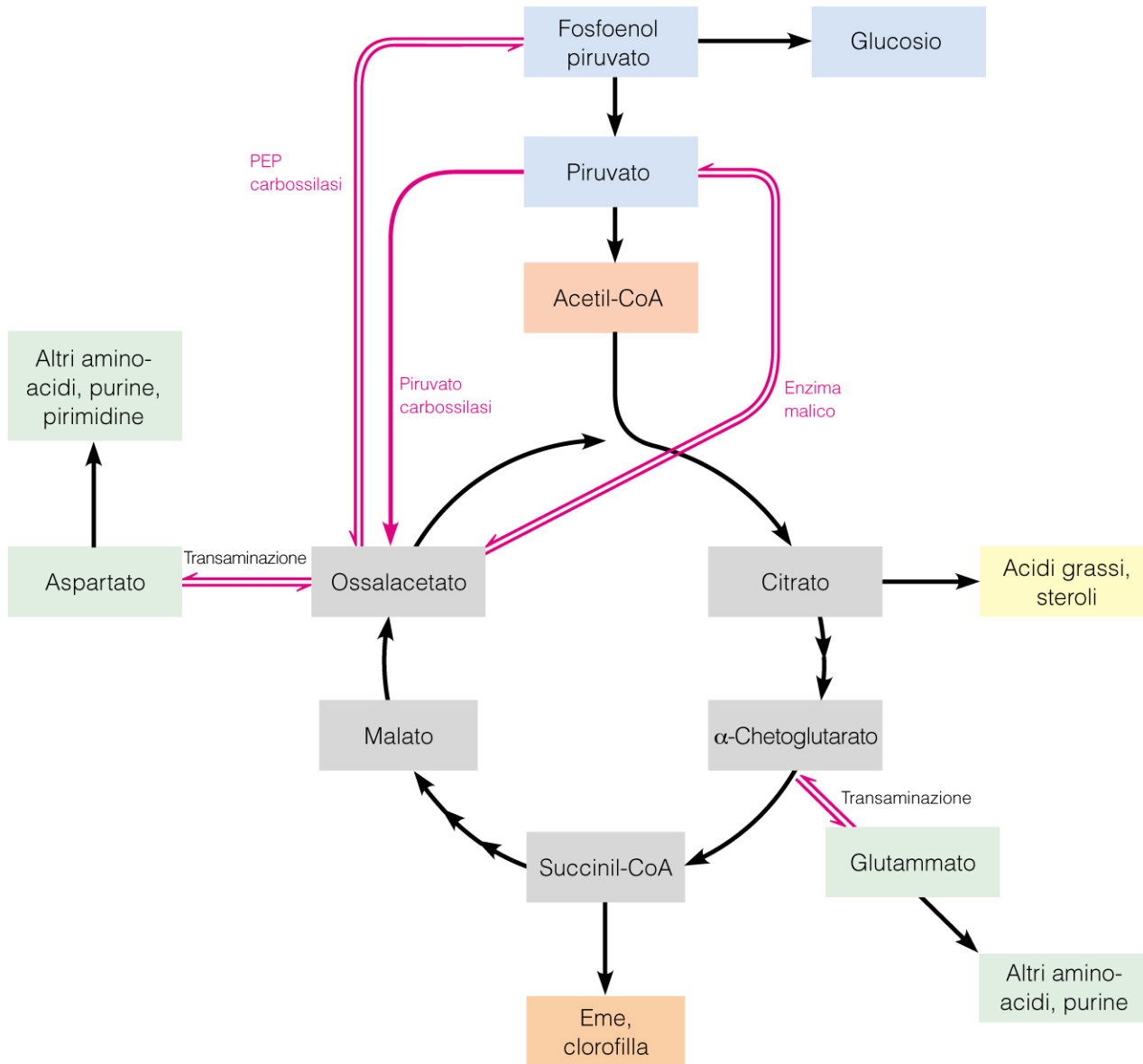
$$\Delta G'^{\circ} = -3.8 \text{ kJ/mol}$$

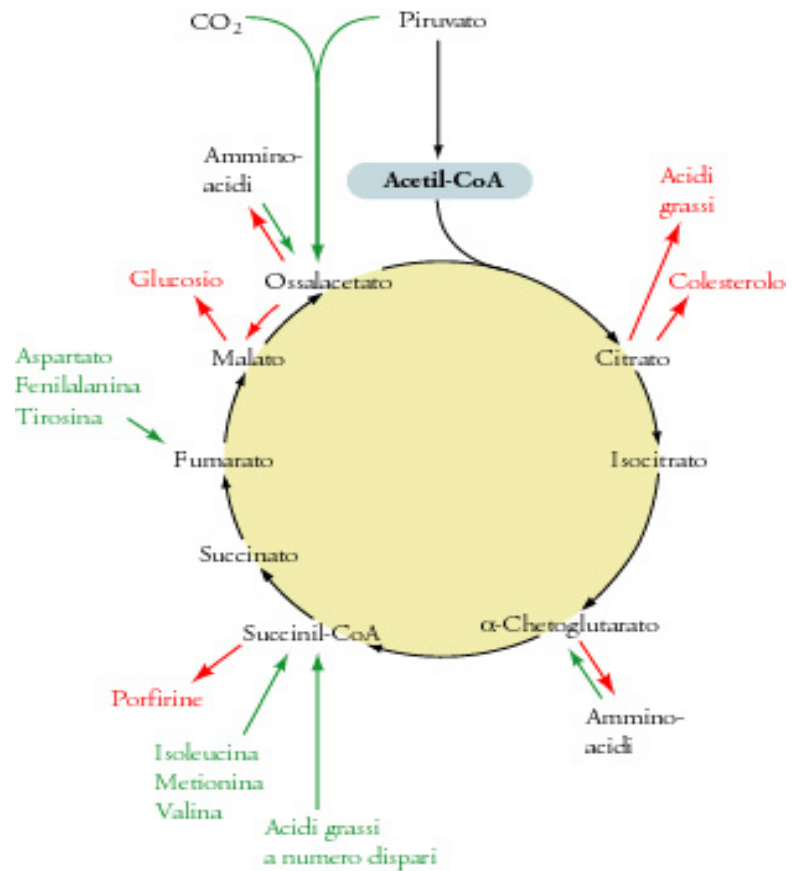


$$\Delta G'^{\circ} = 29.7 \text{ kJ/mol}$$

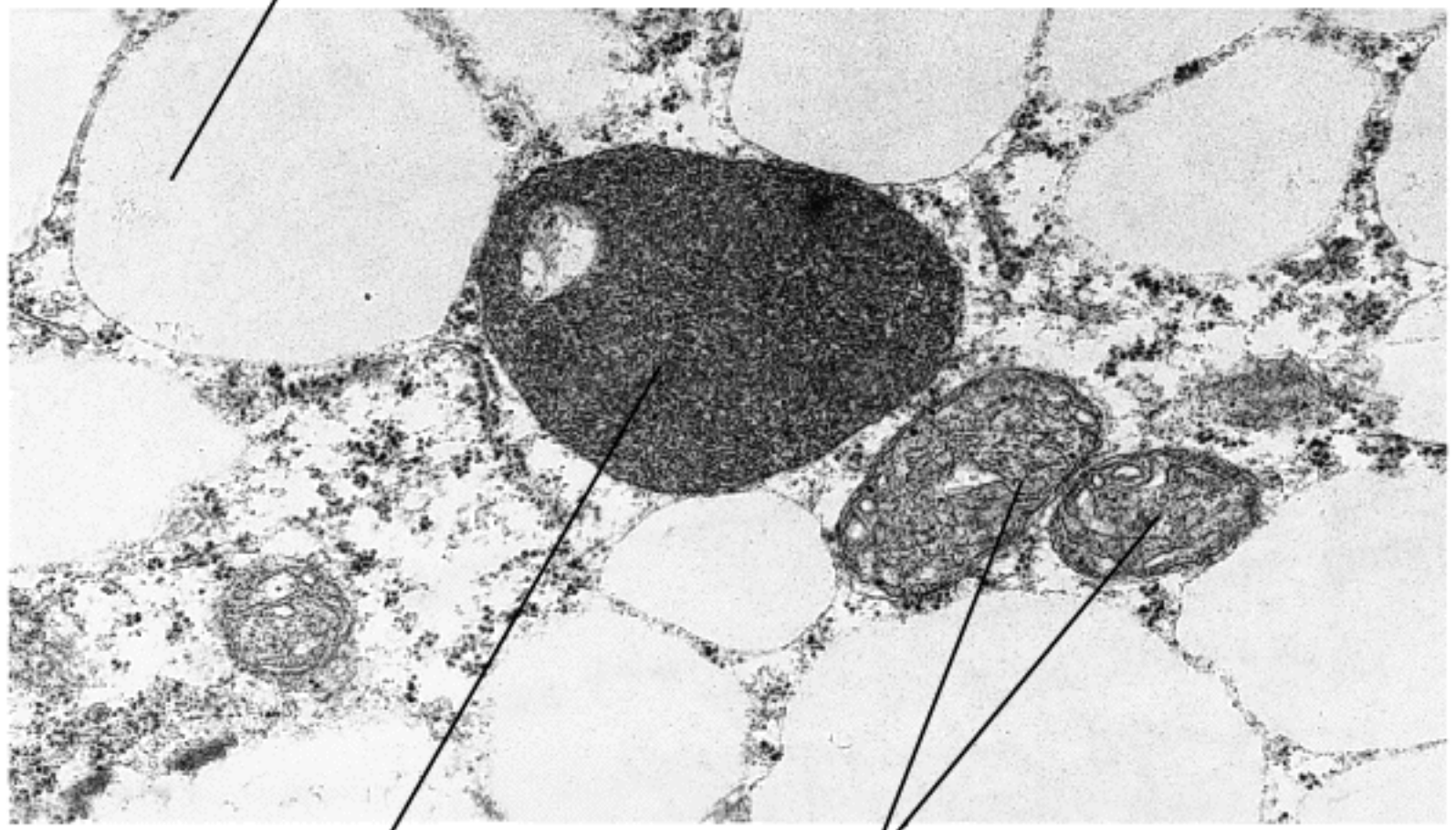








Lipid body



Glyoxysome

Mitochondria

