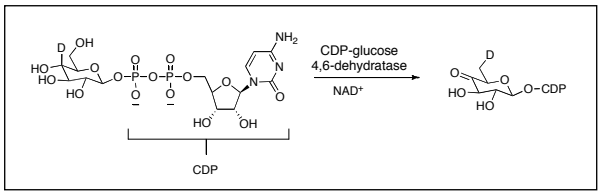
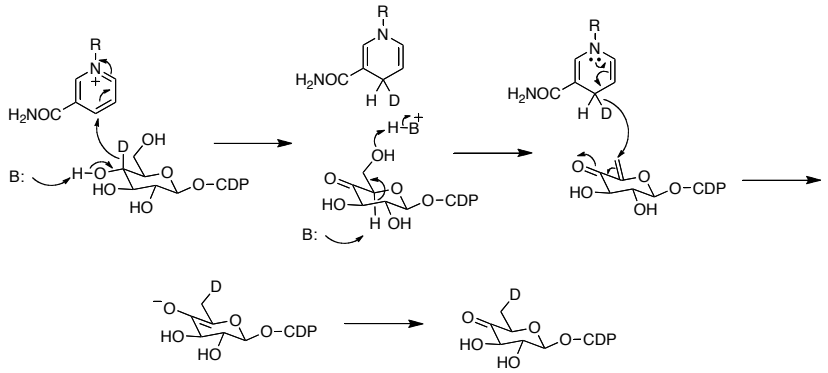
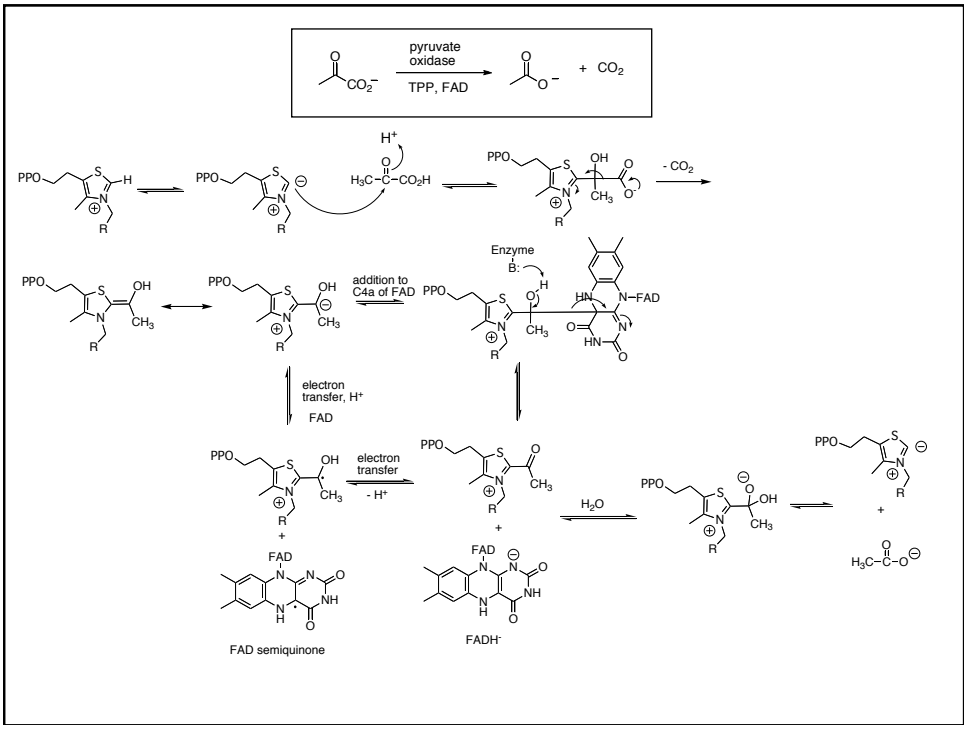
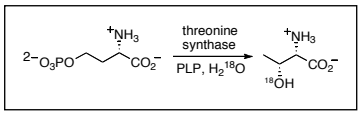
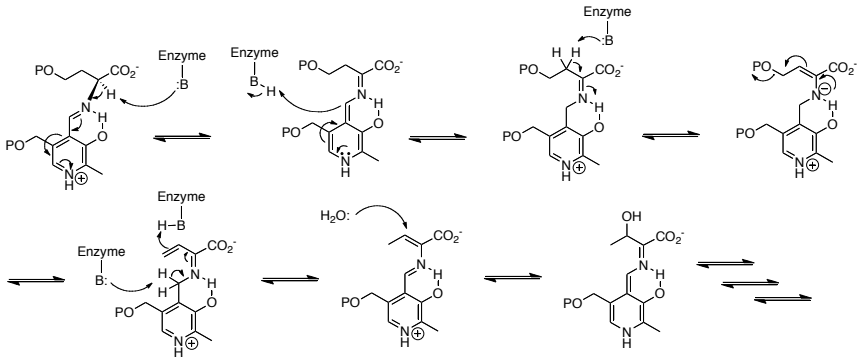
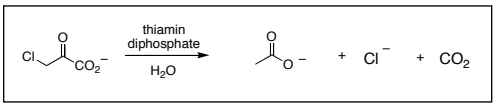

CDP-glucose
4,6-dehydratase
NAD+
CDP

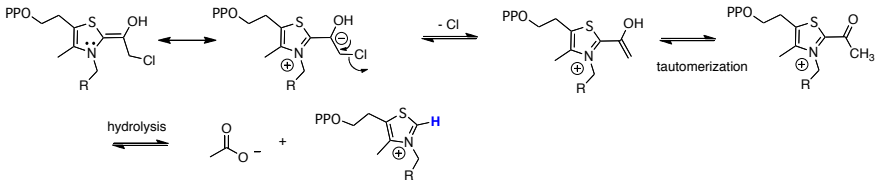

B:
O-CDP

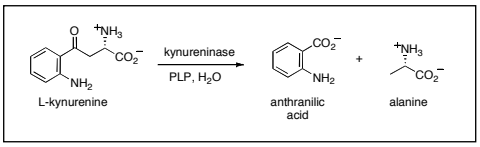

pyruvate
oxidase
TPP, FAD
+ CO2
PPO
- CO2
Enzyme
addition to
C4a of FAD
electron
transfer, H+
FAD
electron
transfer
- H+
H2O
FAD semiquinone
FADH-

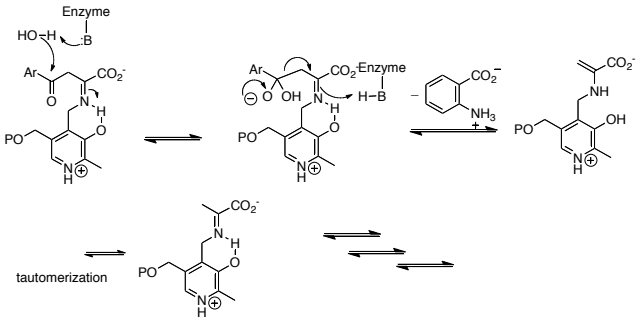

threonine synthase
PLP, $H_2{}^{18}O$

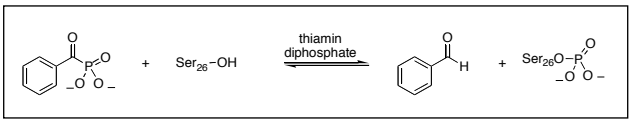

Enzyme
Enzyme
Enzyme
Enzyme
Enzyme
H_2O:

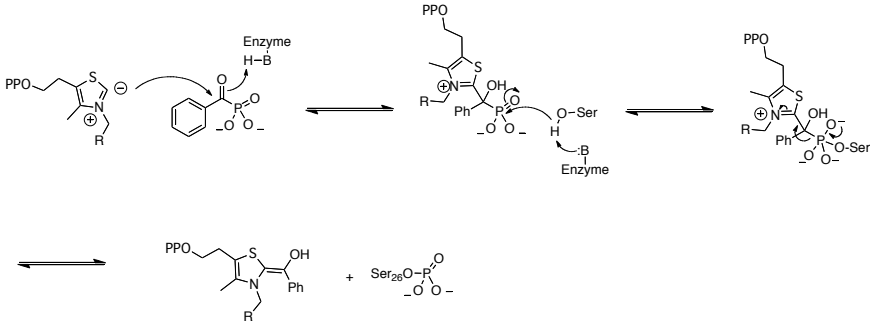

thiamin diphosphate
H_2O


- Cl
tautomerization
hydrolysis

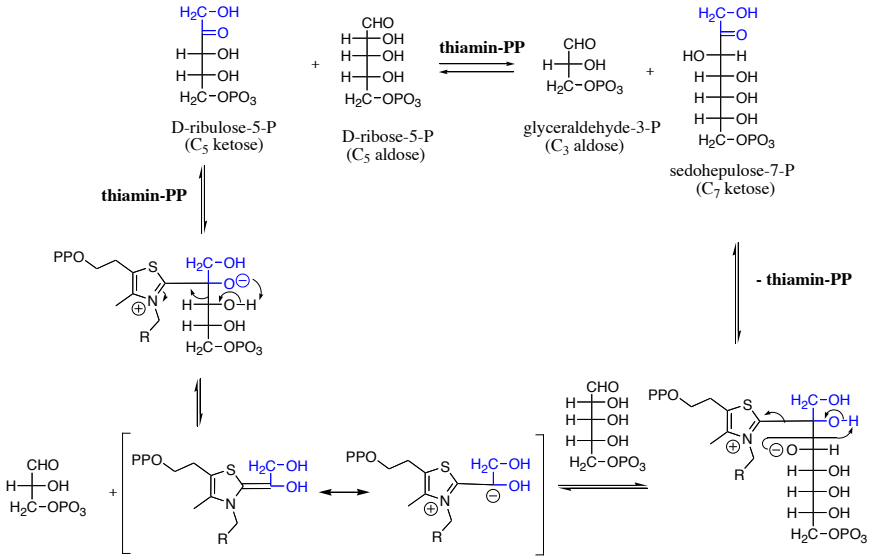

kynureninase
PLP, H2O
L-kynurenine
anthranilic acid
alanine


Enzyme
tautomerization


thiamin diphosphate


Enzyme
Enzyme

Transketolase



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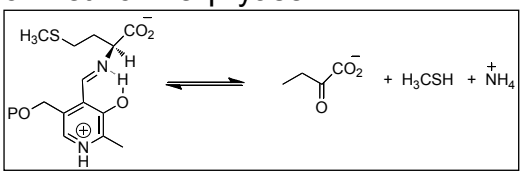
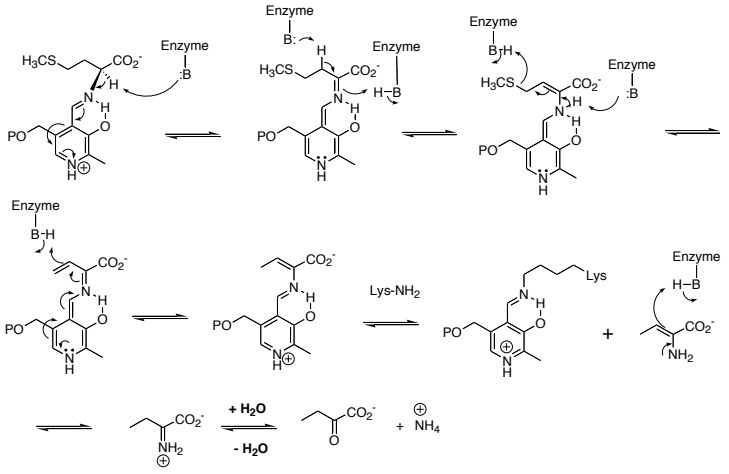
Mechanism of methionine γ-lyase





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