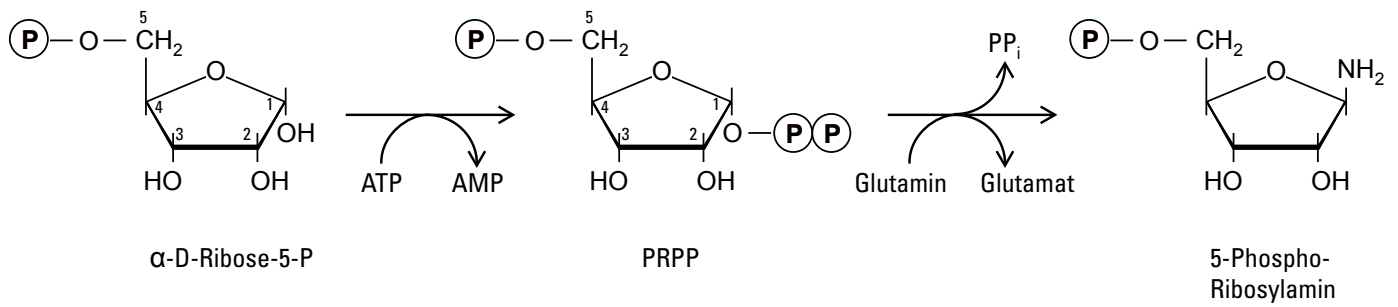




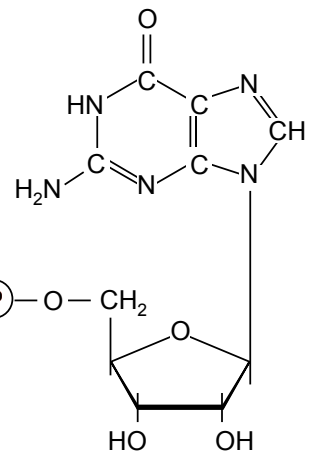
schrittweiser Aufbau
des Ringsystems
 4 ATP
Glycin
2 Formyl-THF
Glutamin
Aspartat
HCO₃⁻

NADH + H⁺
Glutamat
AMP + PP_i

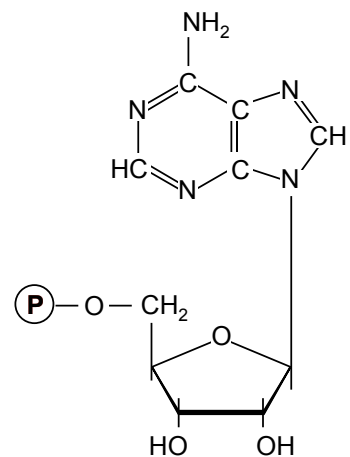
NAD⁺
Glutamin
ATP
H₂O

Aspartat
GTP

Fumarat
GDP + P_i



Guanosinmonophosphat **GMP**



Adenosinmonophosphat **AMP**