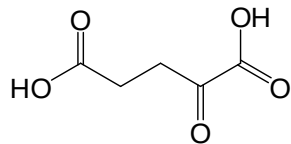
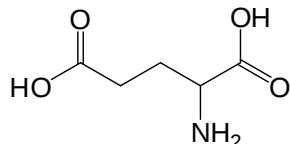


*Tt*GDH



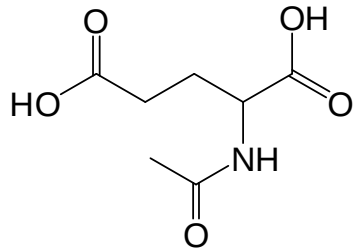
α -Ketoglutarate

NH_4^+



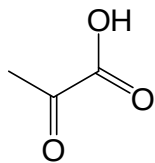
Glutamate

*Tm*NAGS



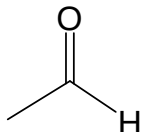
N-Acetylglutamate

Bypassed pyruvate
decarboxylation pathway



Pyruvate

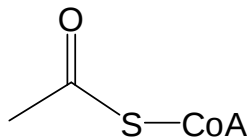
CO_2



Acetaldehyde

*Ap*PDC

NAD^+ NADH



Acetyl-CoA

CoA

*Tt*ADDH

