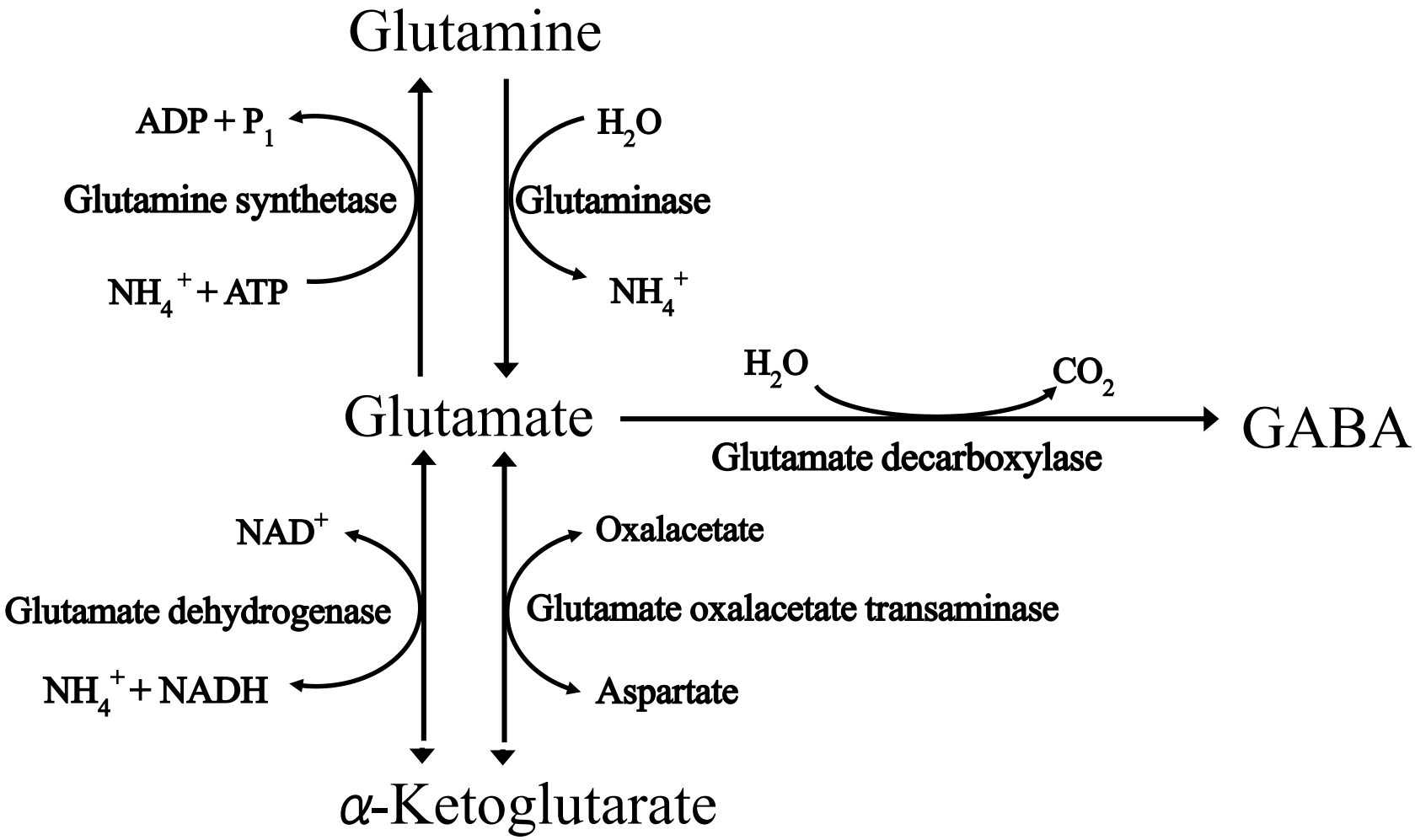
Glutamine
ADP + P1
Glutamine synthetase
NH4+ + ATP
H2O
Glutaminase
NH4+
Glutamate
H2O
CO2
GABA
Glutamate decarboxylase
NAD+
Glutamate dehydrogenase
NH4+ + NADH
Oxalacetate
Glutamate oxalacetate transaminase
Aspartate
α-Ketoglutarate