$$v = \frac{(k_{cat} \times 2 \times ATP \times NH4)/(k_{ATP\_NH_4} \times k_{ATP})}{1 + (1 + AA/k_{ATP\_AA}) + (NH4/k_{ATP\_NH4})) + (ATP/k_{ATP}) + (1 + AA/k_{NH4\_AA}) + (NH4/k_{NH_4})} \quad (3.8)$$

1000 particles with 1% acceptance threshold (0.000046)
Uniform prior 0.1 to 20.0