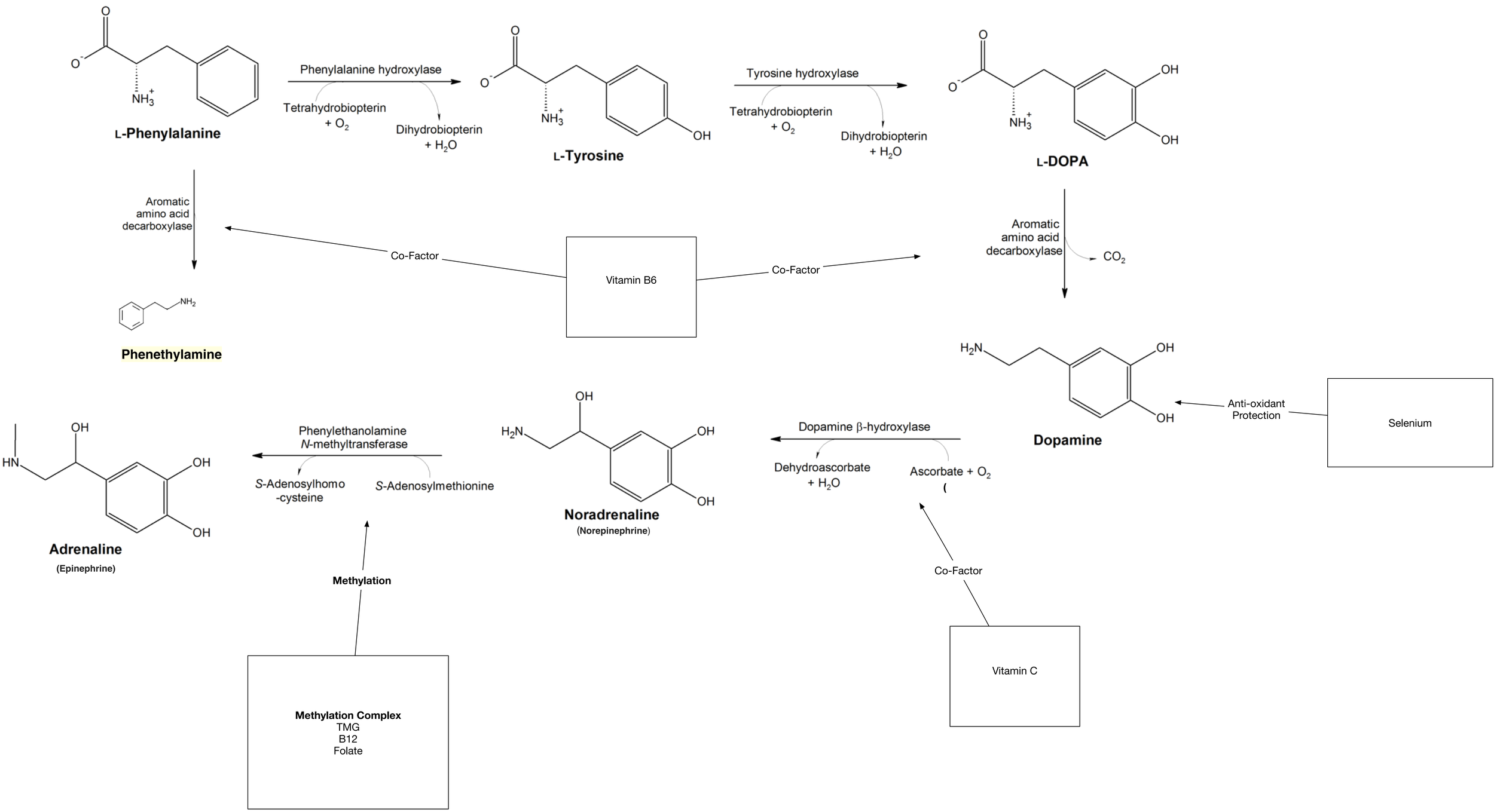
L-Phenylalanine
Phenylalanine hydroxylase
Tetrahydrobiopterin + O_2
Dihydrobiopterin + H_2O
L-Tyrosine
Tyrosine hydroxylase
Tetrahydrobiopterin + O_2
Dihydrobiopterin + H_2O
L-DOPA
Aromatic amino acid decarboxylase
Co-Factor
Vitamin B6
Co-Factor
Aromatic amino acid decarboxylase
CO_2
Phenethylamine
Dopamine
Anti-oxidant Protection
Selenium
Adrenaline
(Epinephrine)
Phenylethanolamine N-methyltransferase
S-Adenosylhomo -cysteine
S-Adenosylmethionine
Noradrenaline
(Norepinephrine)
Dopamine β-hydroxylase
Dehydroascorbate + H_2O
Ascorbate + O_2
Co-Factor
Vitamin C
Methylation
Methylation Complex
TMG
B12
Folate