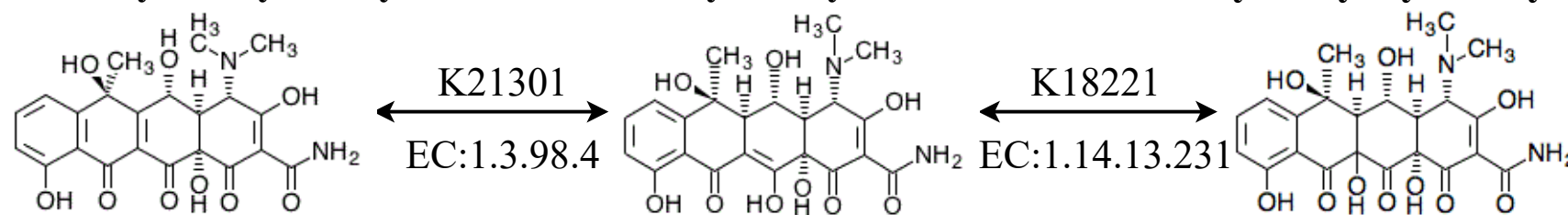


**5a,11a-Dehydroxytetracycline**

**Oxytetracycline**

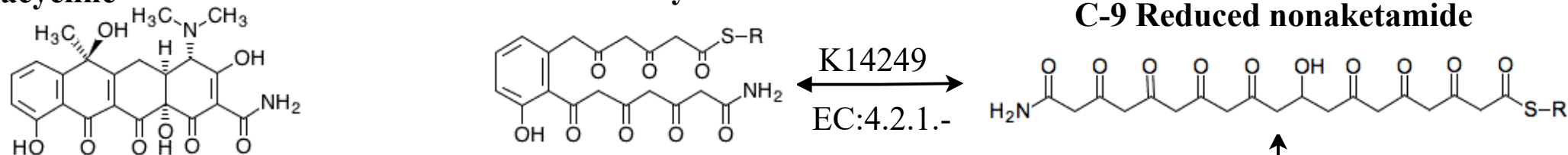
**11a-Hydroxyoxytetracycline**



**5a,11a-Dehydrotetracycline**

**Nonaketamide monocyclic intermediate**

**C-9 Reduced nonaketamide**

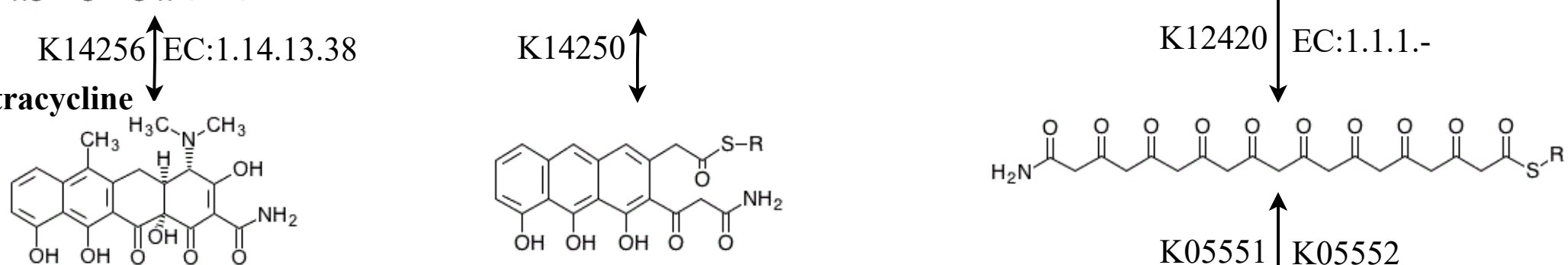


**Anhydrotetracycline**

**Pretetramid**

**Malonamoyl-[acp]**

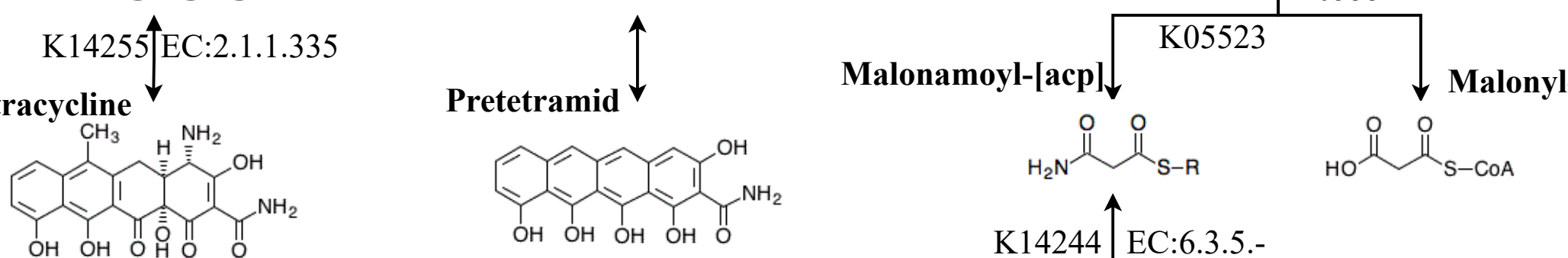
**Malonyl-CoA**



**4-Amino-anhydrotetracycline**

**4-Keto-anhydrotetracycline**

**Malonyl-[acp]**



**4-Hydroxy-6-methylpretetramide**

**6-Methylpretetramide**

