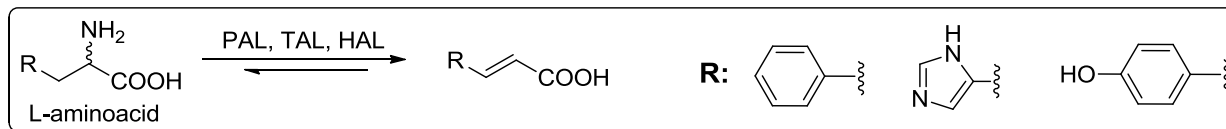


Ammonia-lyase and aminomutase

Ammonia-lyase

- **Phenylalanine ammonia-lyase** (PAL EC 4.3.1.24)–transform L-phenylalanine into (*E*)-cinnamic acid;
- **Tyrosine ammonia-lyase** (TAL EC 4.3.1.23)– transform L-tyrosin into (*E*)-coumaric acid;
- **Histidine ammonia-lyase** (HAL EC 4.3.1.3)– transform L-histidin into acid (*E*)-urocanic acid.



Aminomutase

- **Phenylalanine -2,3-aminomutase** (PAM) and **Tyrosin-2,3-aminomutase** (TAM) catalyse the isomerisation reactions of their natural substrates.

