

Name: _____ Student ID: _____
CHEM 161 PAL Fall 2026

Worksheet 12: Enzyme Classes

1. Define each enzyme class below and write the number associated with the class:

a. Oxidoreductase (EC #_____)

b. Transferase (EC #_____)

c. Hydrolase (EC #_____)

d. Isomerase (EC #_____)

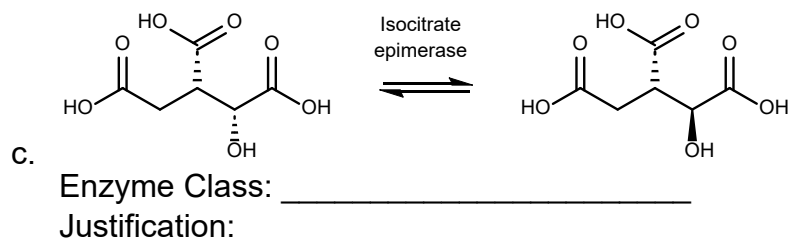
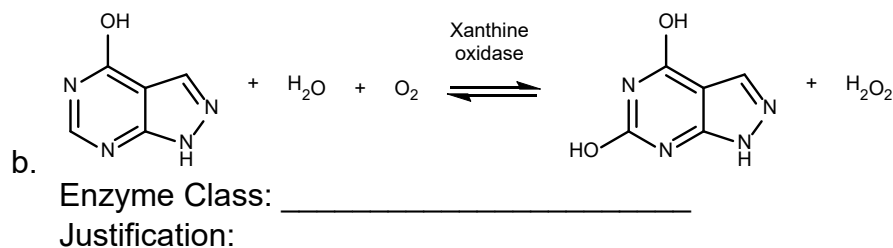
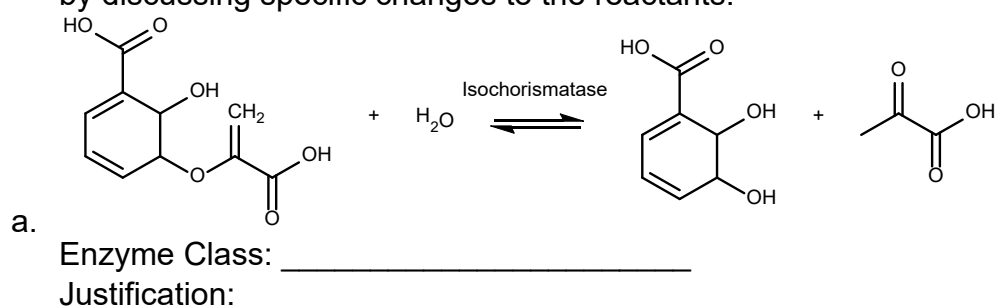
e. Ligase (EC #_____)

f. Lyase (EC #_____)

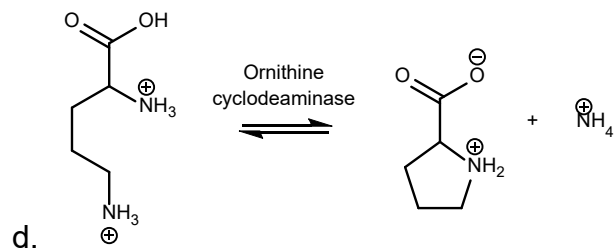
g. Translocase (EC #_____)

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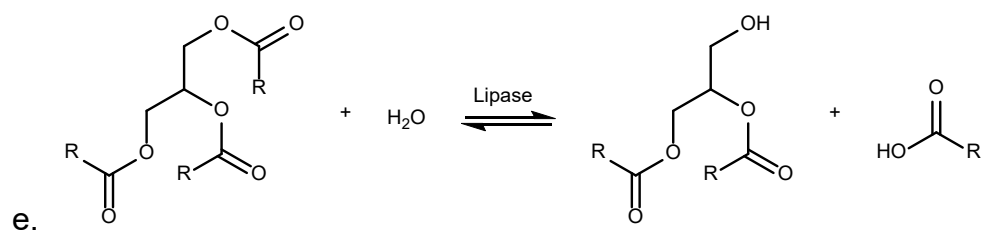
2. Classify each of the enzymes below into one of the following classes: oxidoreductase, transferase, hydrolase, isomerase, ligase, lyase, translocase. Justify the classification by discussing specific changes to the reactants.



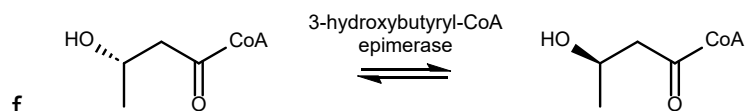
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Enzyme Class: _____
 Justification: _____

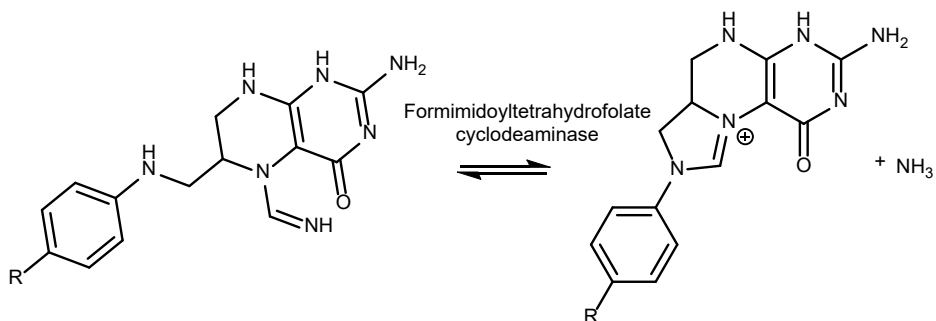


Enzyme Class: _____
 Justification: _____

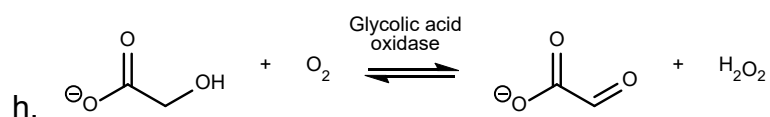


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g. Enzyme Class: _____
 Justification: _____



h. Enzyme Class: _____
 Justification: _____