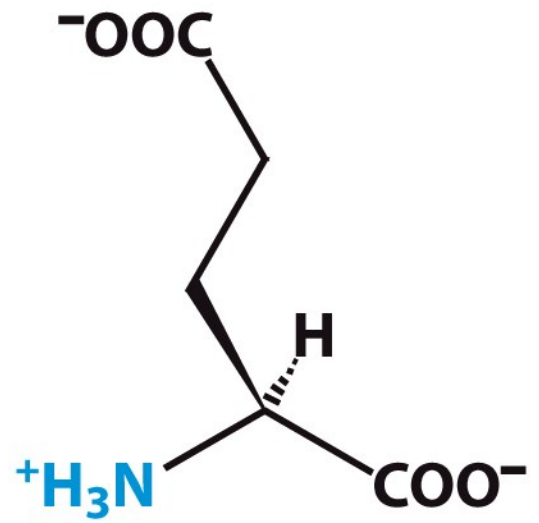


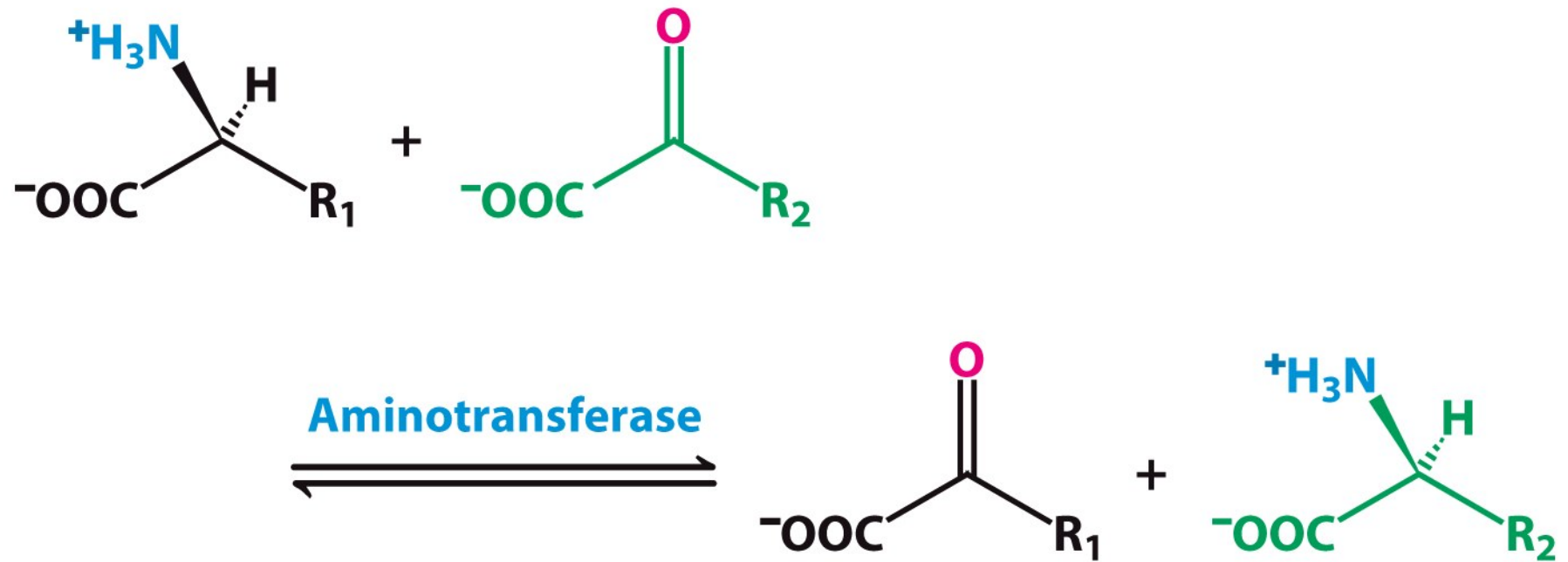
Amino acid



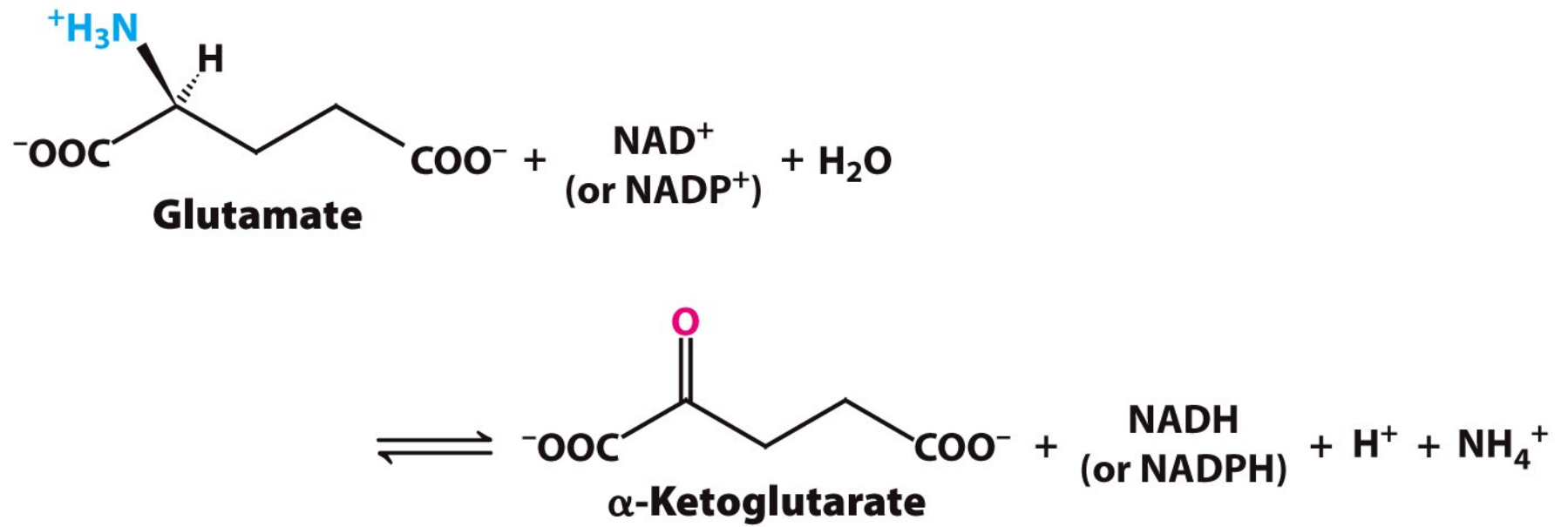
Glutamate



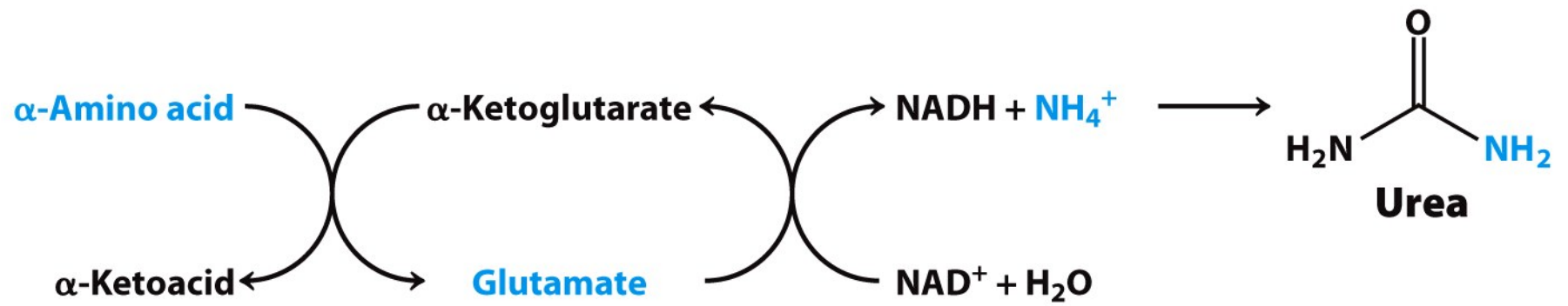
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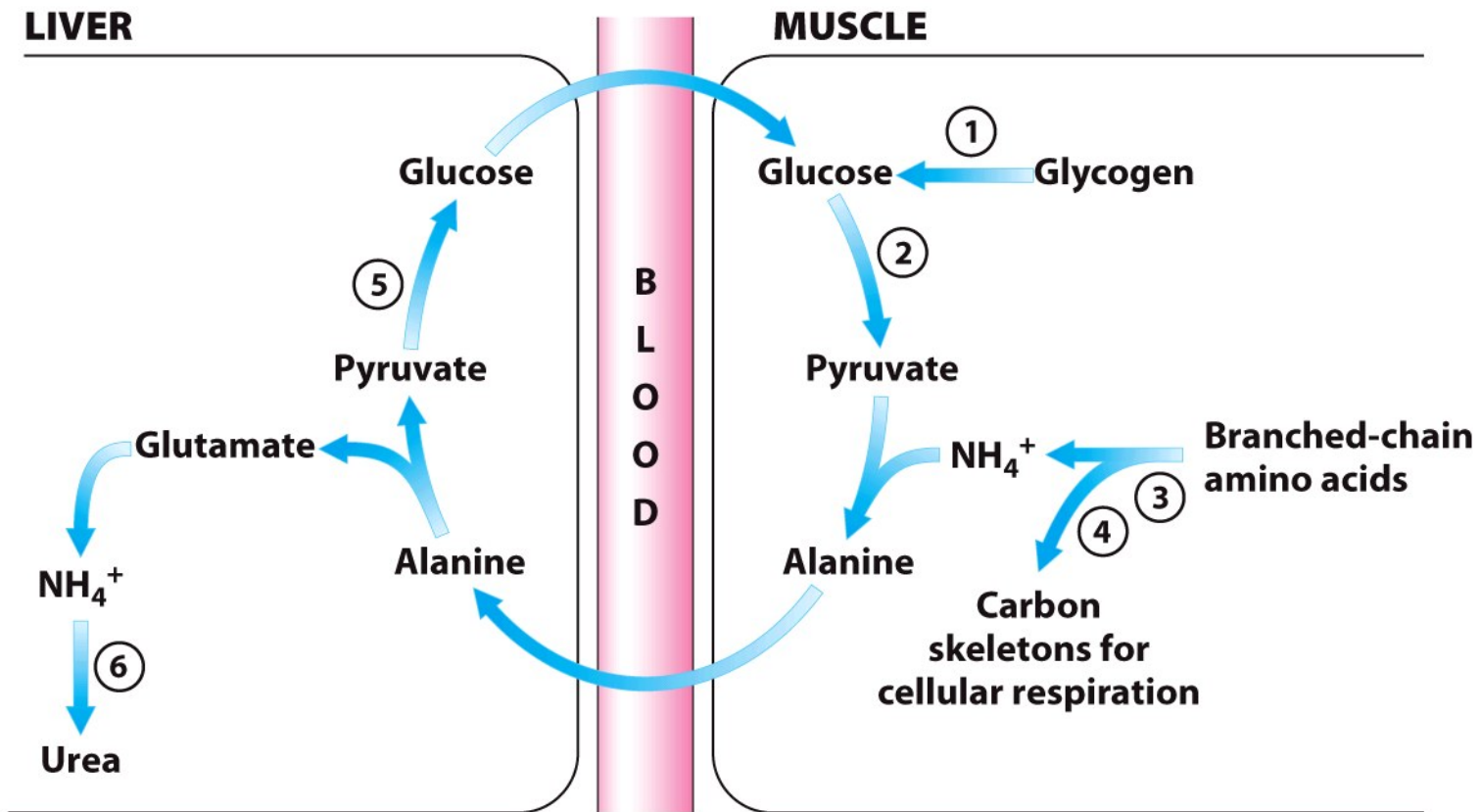
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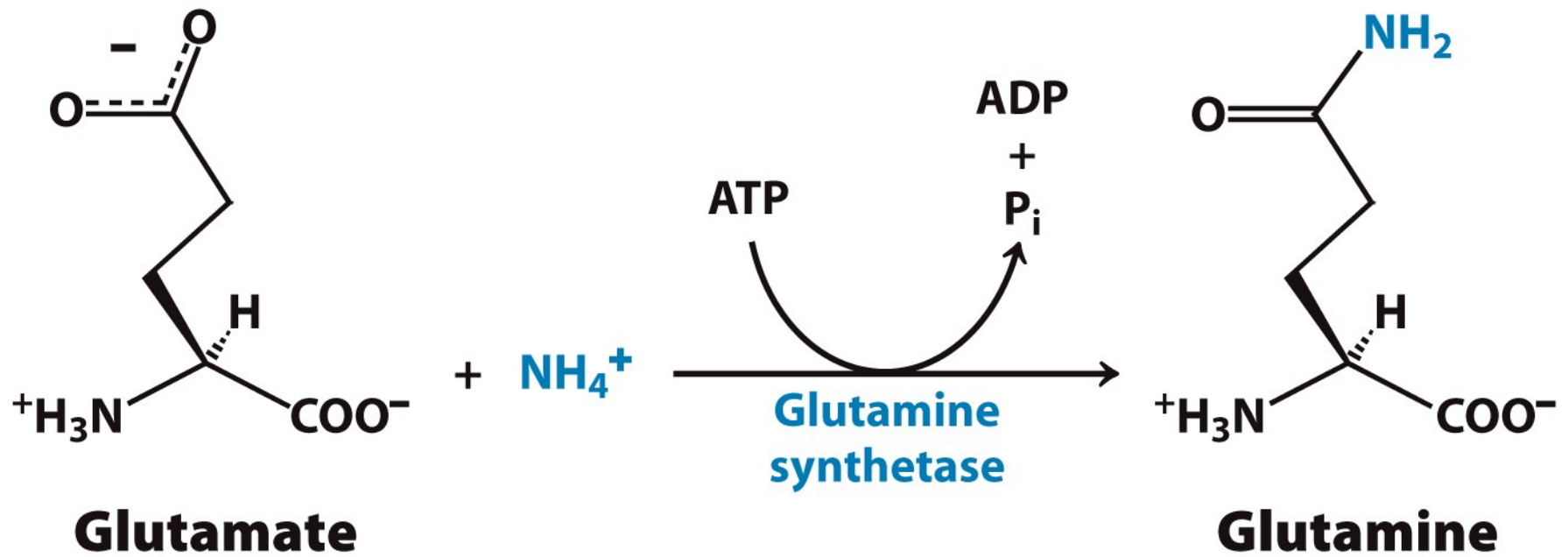
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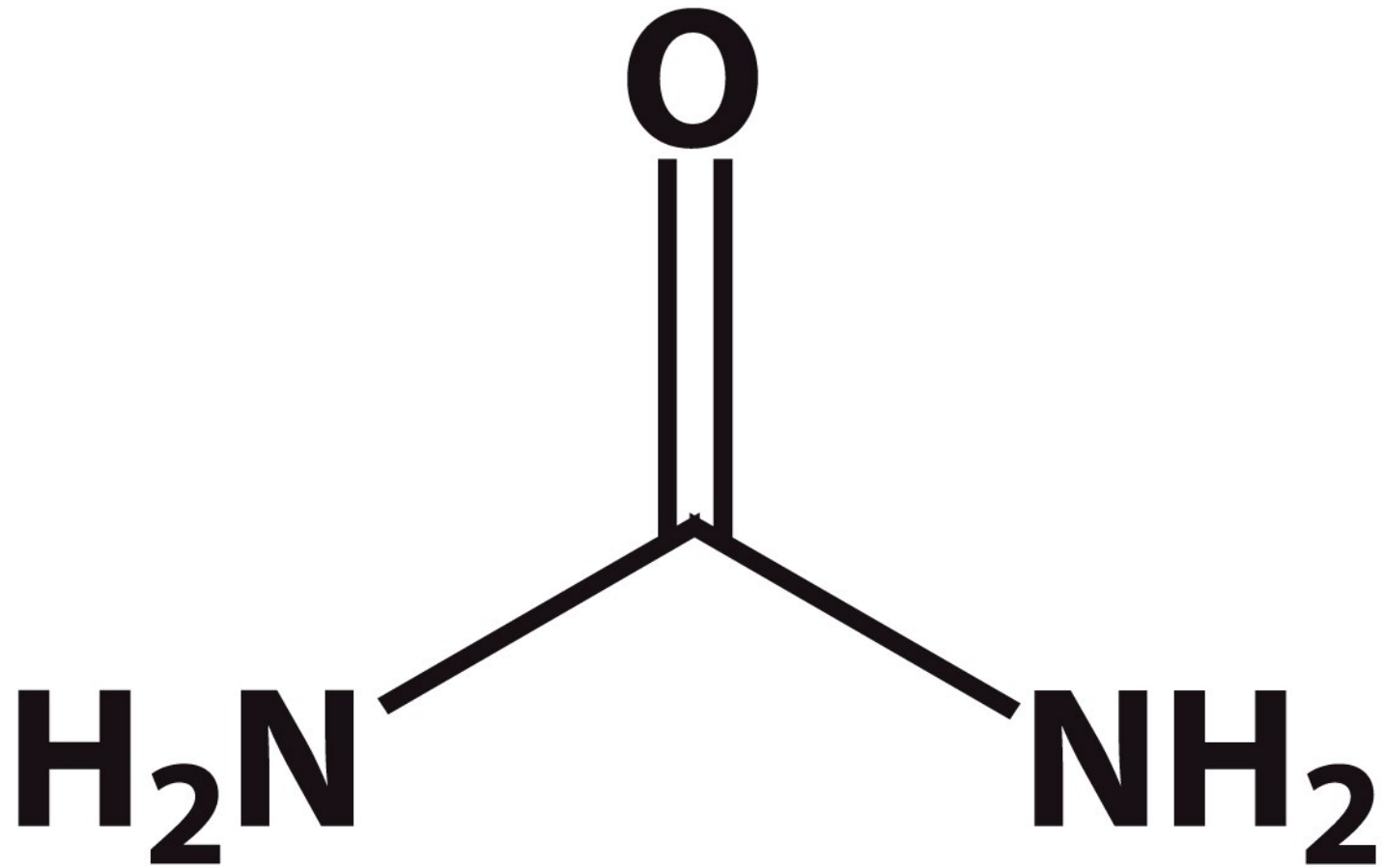
Active pathways:

1. Glycogen breakdown, Chapter 24
2. Glycolysis, Chapter 16
3. Citric acid cycle, Chapter 18
4. Oxidative phosphorylation, Chapter 20
5. Gluconeogenesis, Chapter 17
6. Urea cycle, Chapter 30

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Urea

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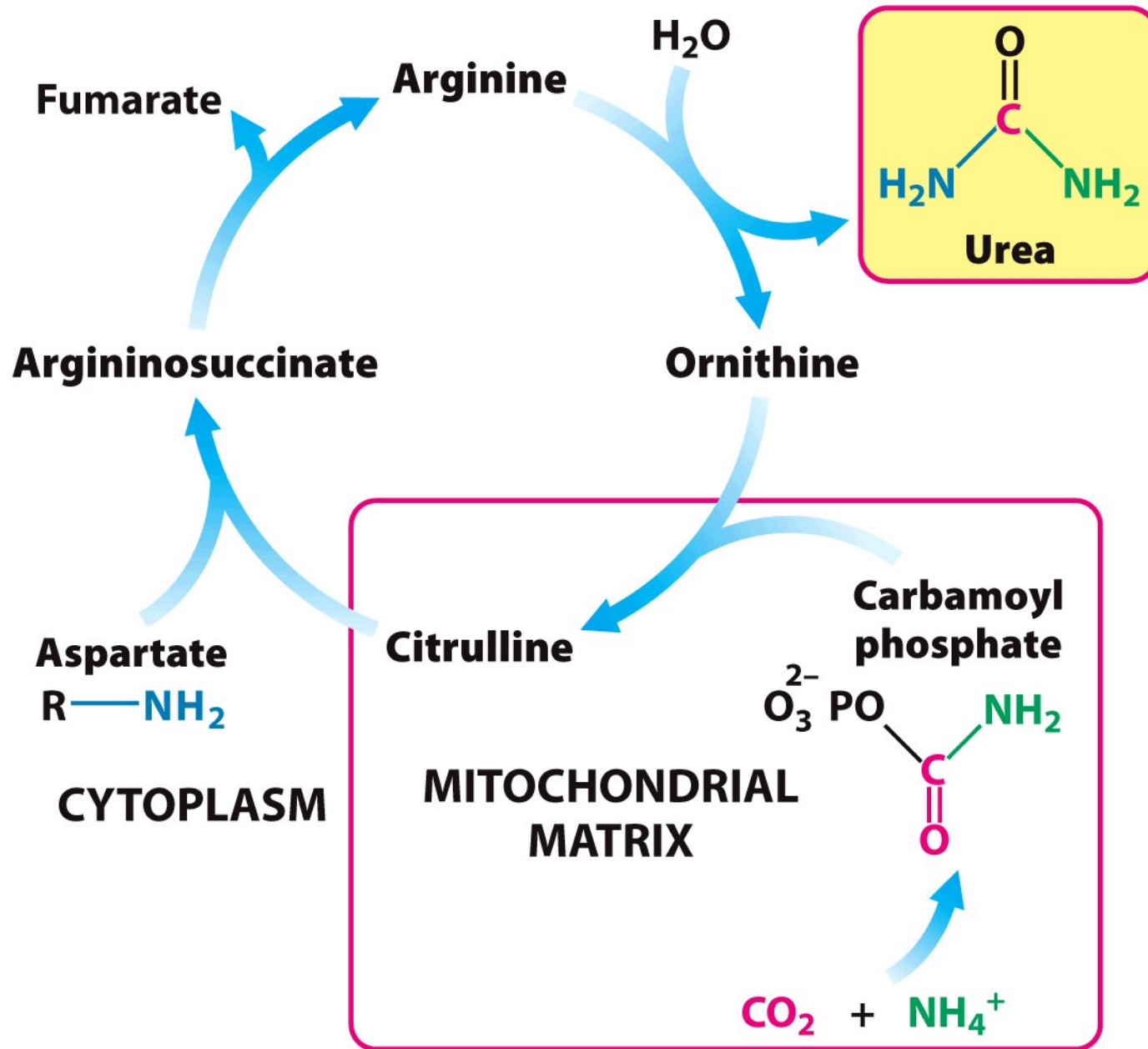
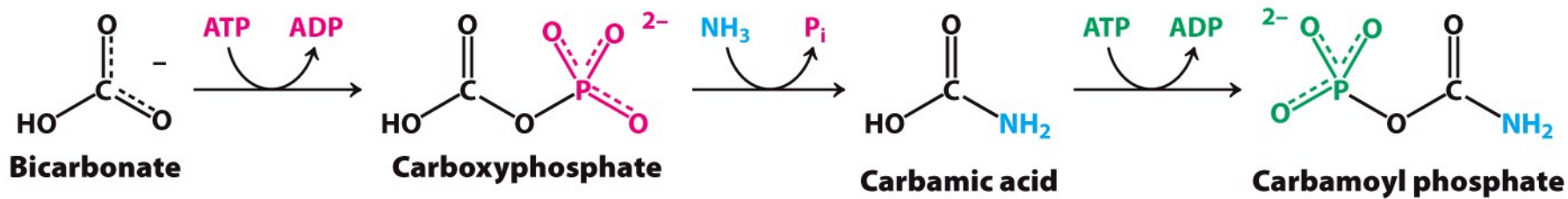
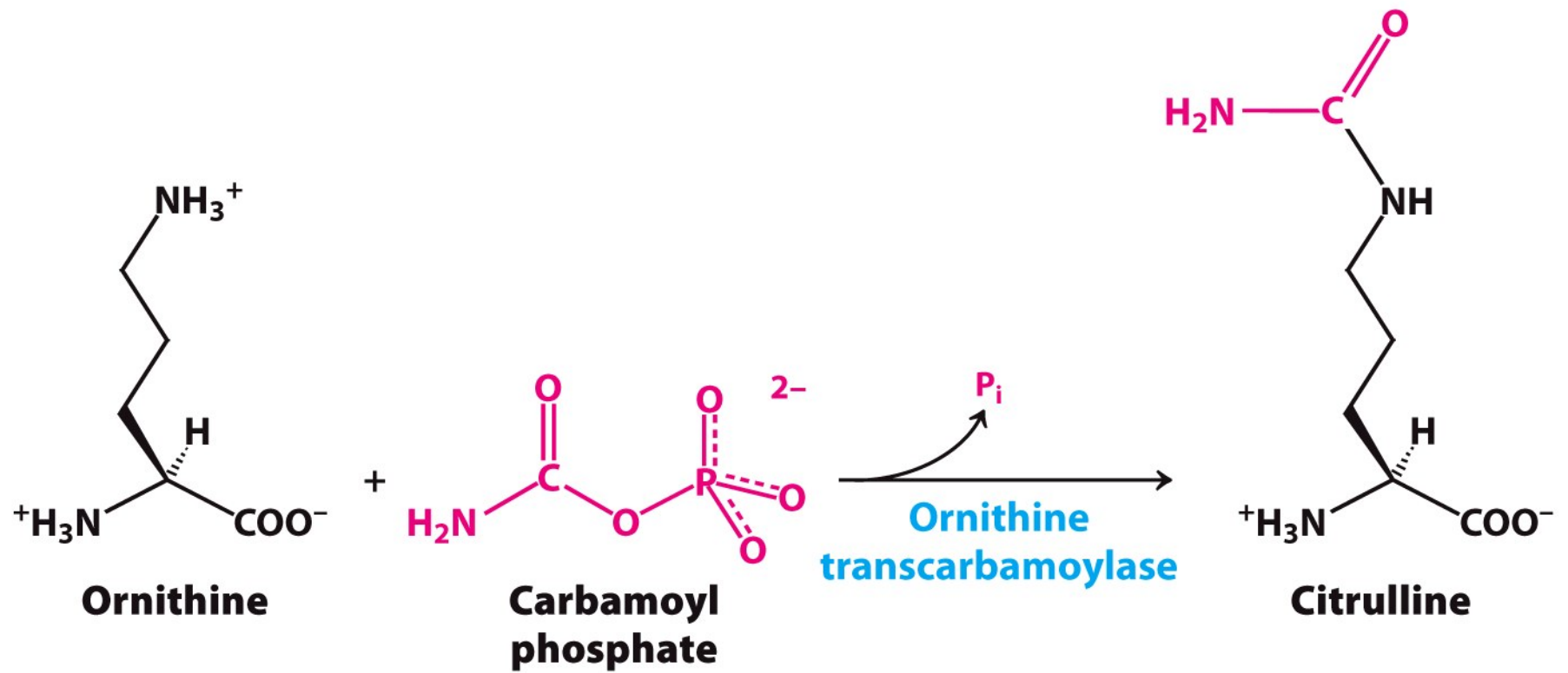


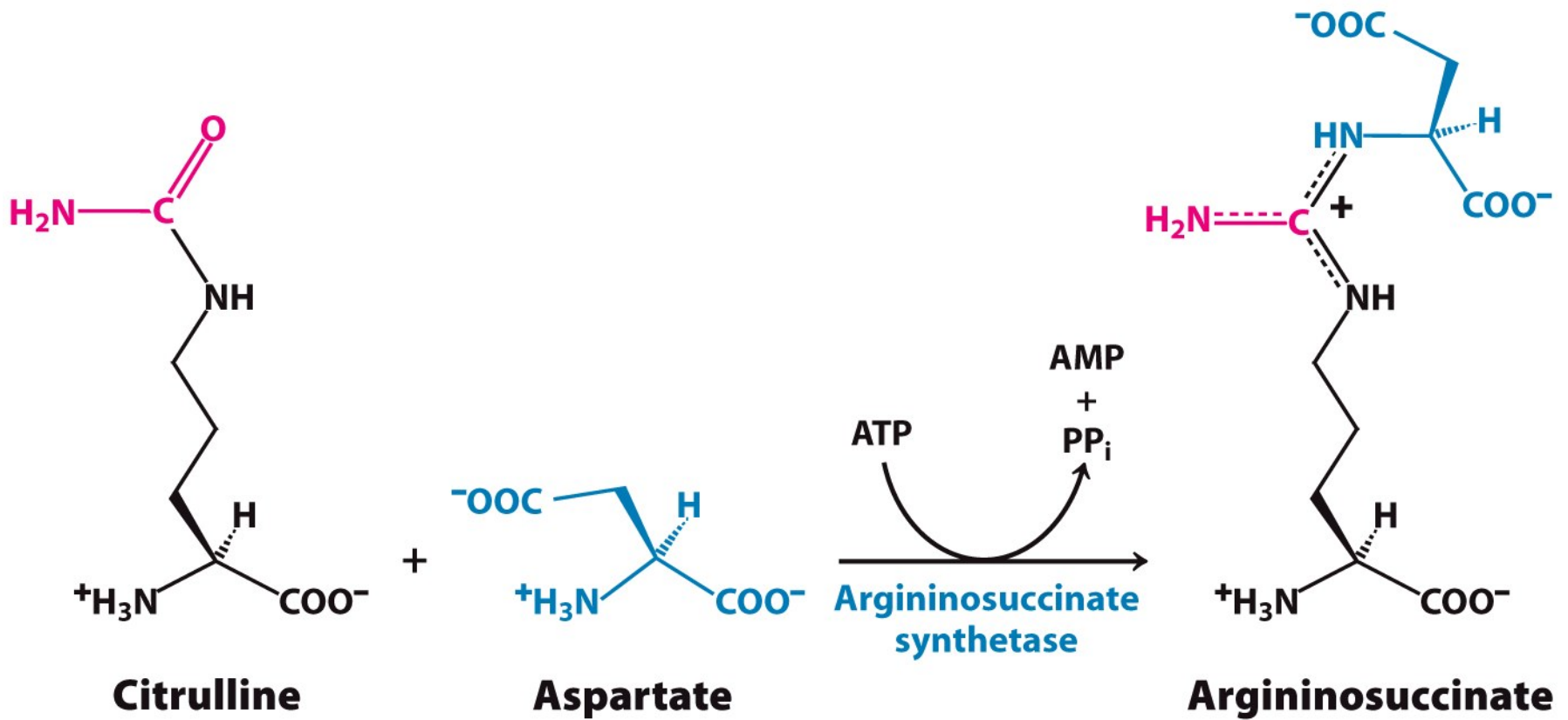
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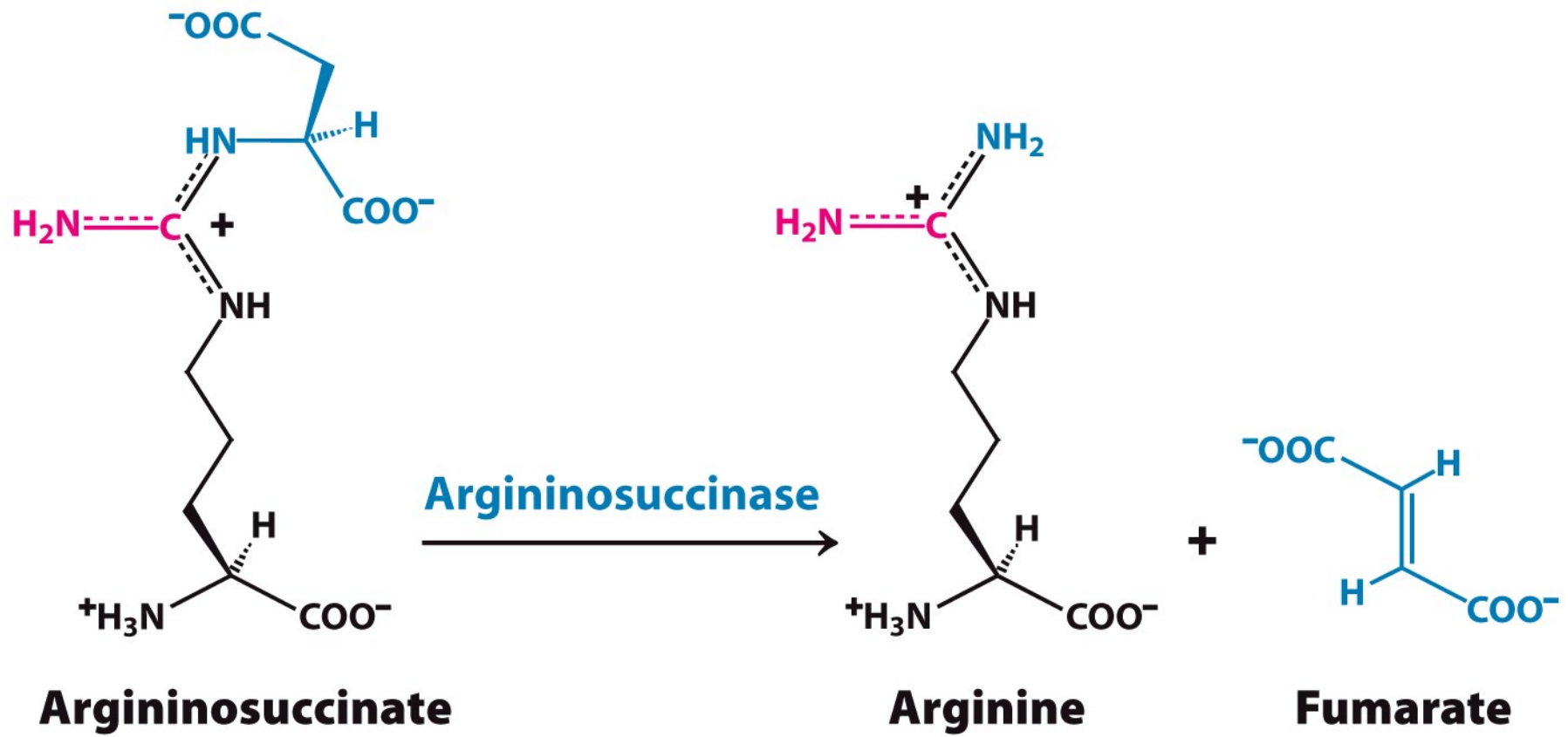
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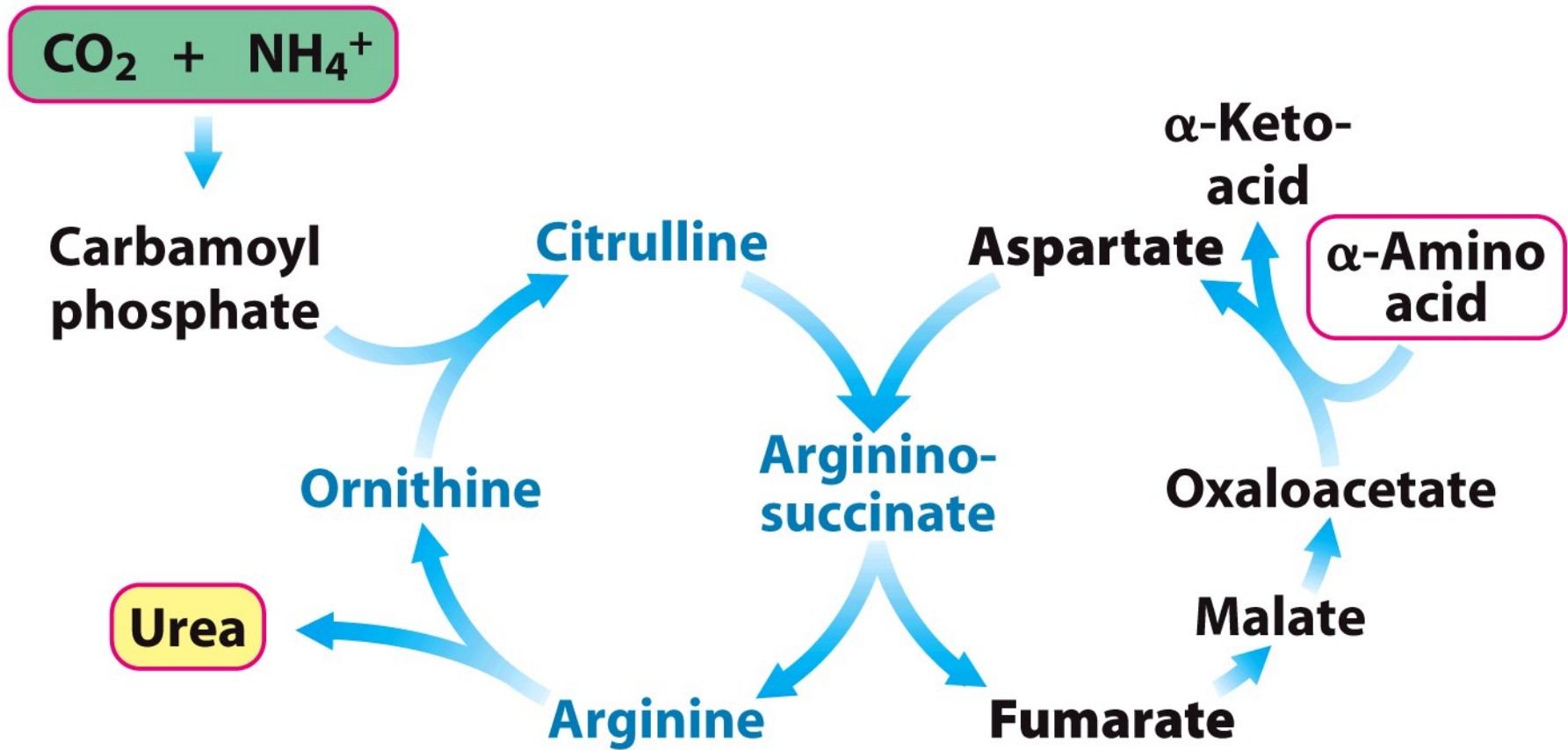


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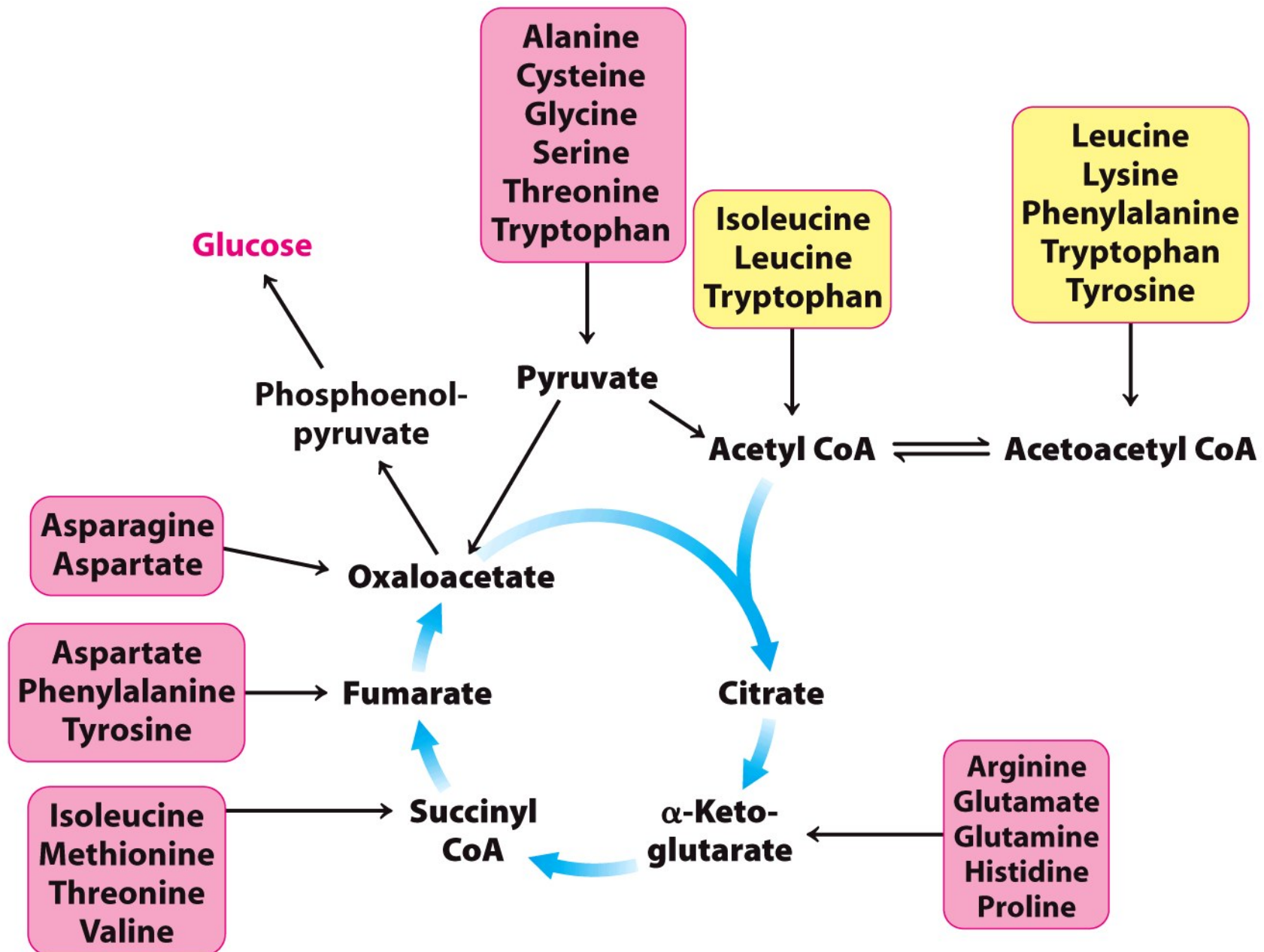
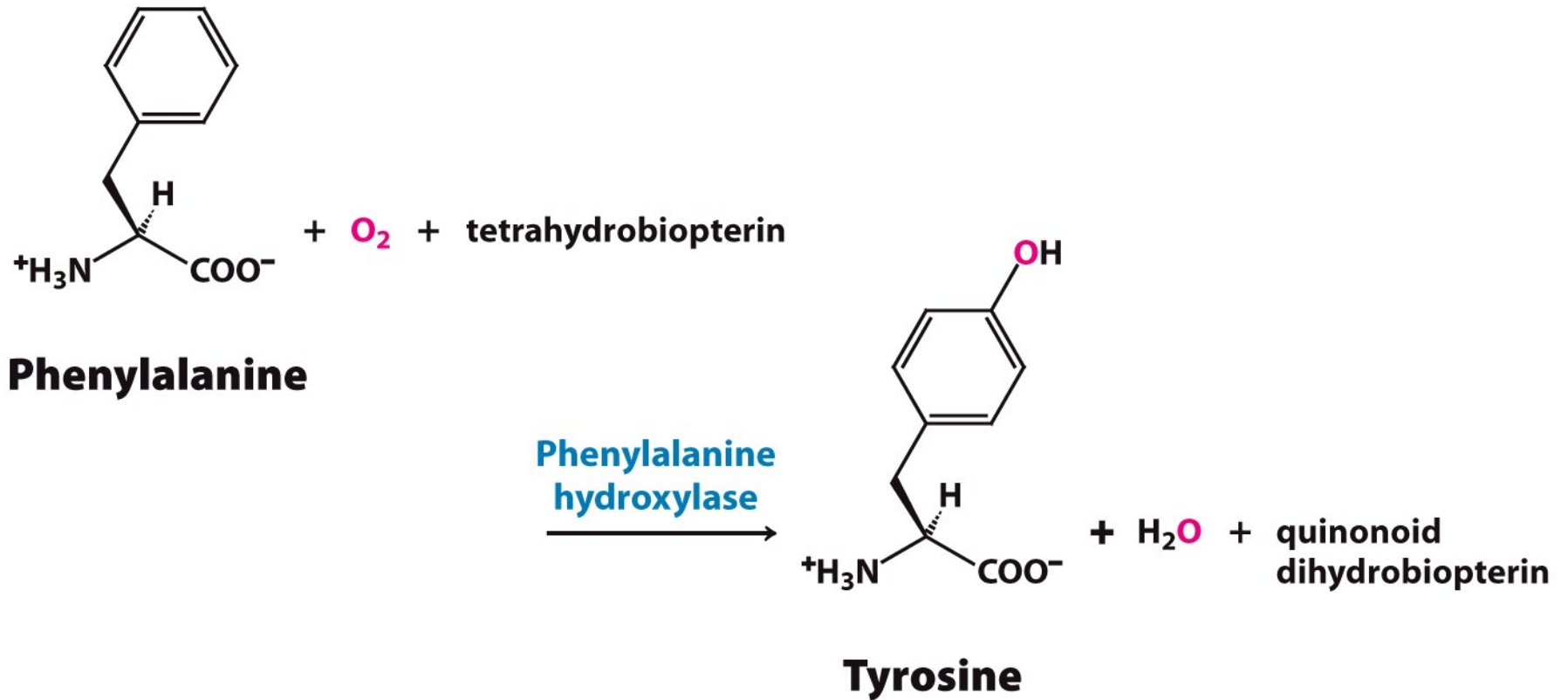


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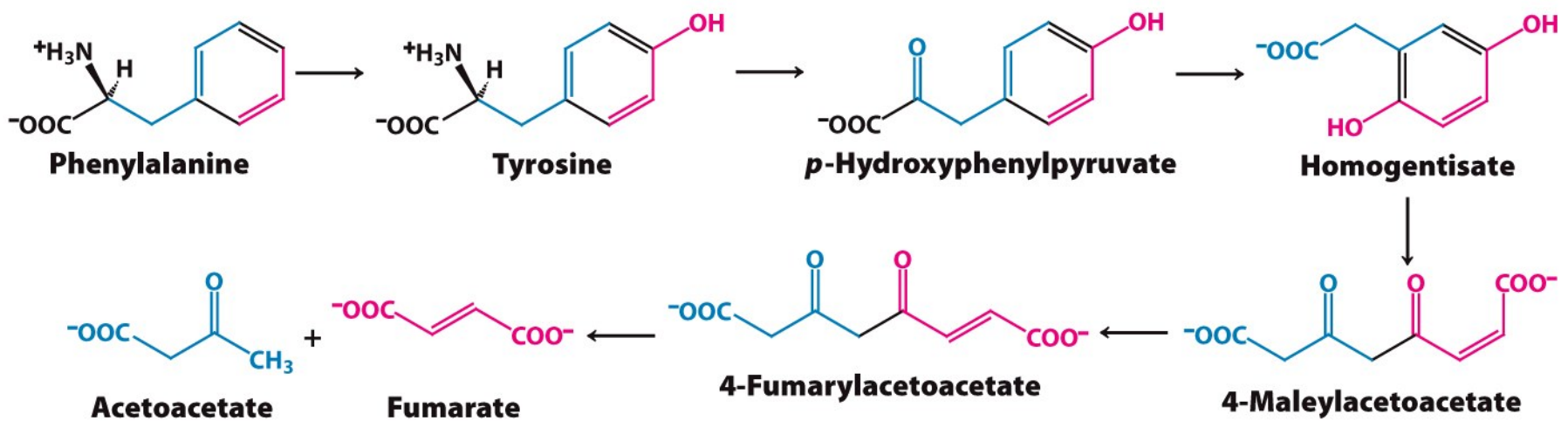


Figure 30.11
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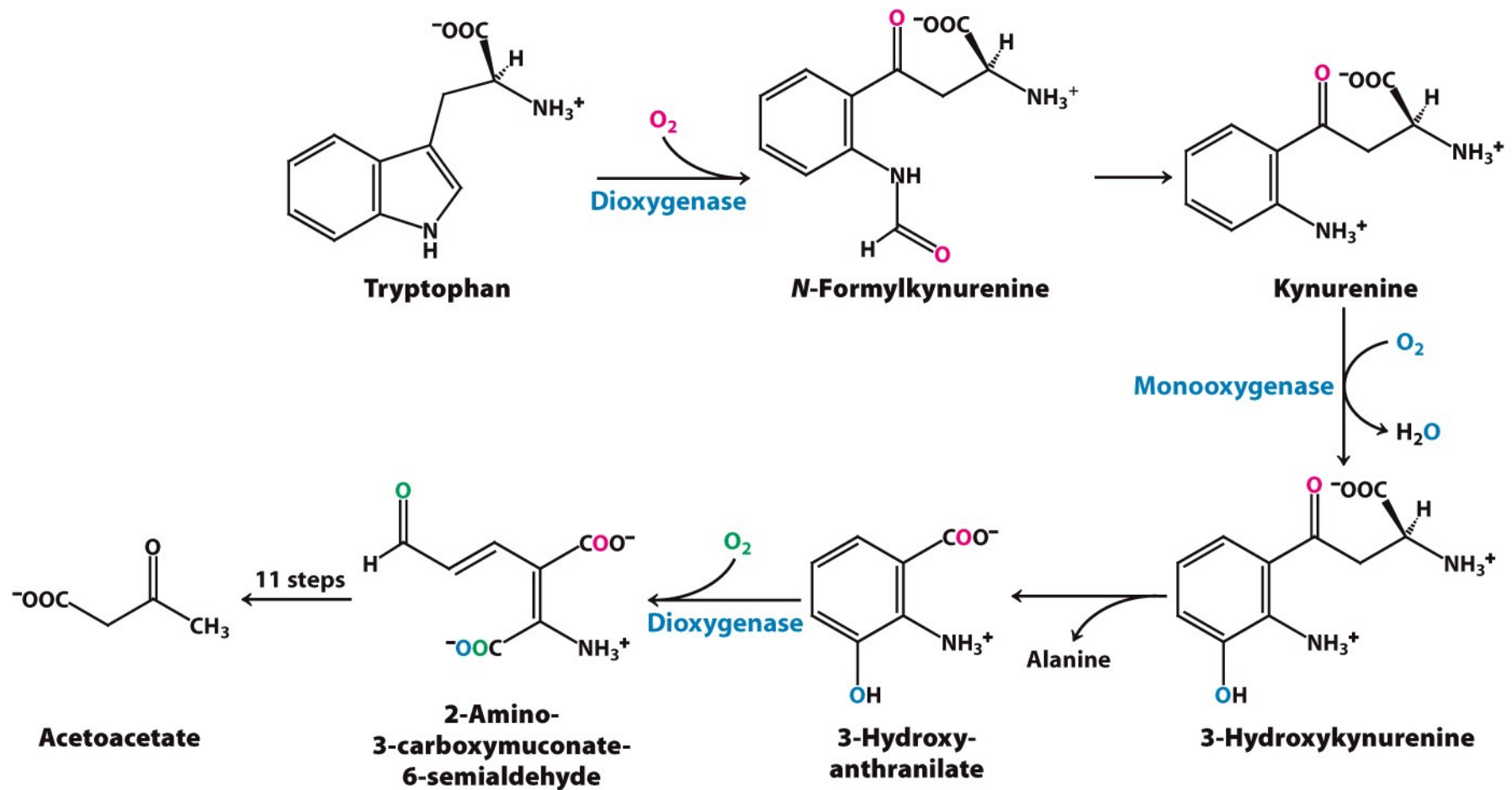


Figure 30.12
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