What is the correct name of this tetrapeptide?

2016-12-02 Q1

A. Tyr-Lys-Trp-Ala

B. Ala-His-Lys-Phe

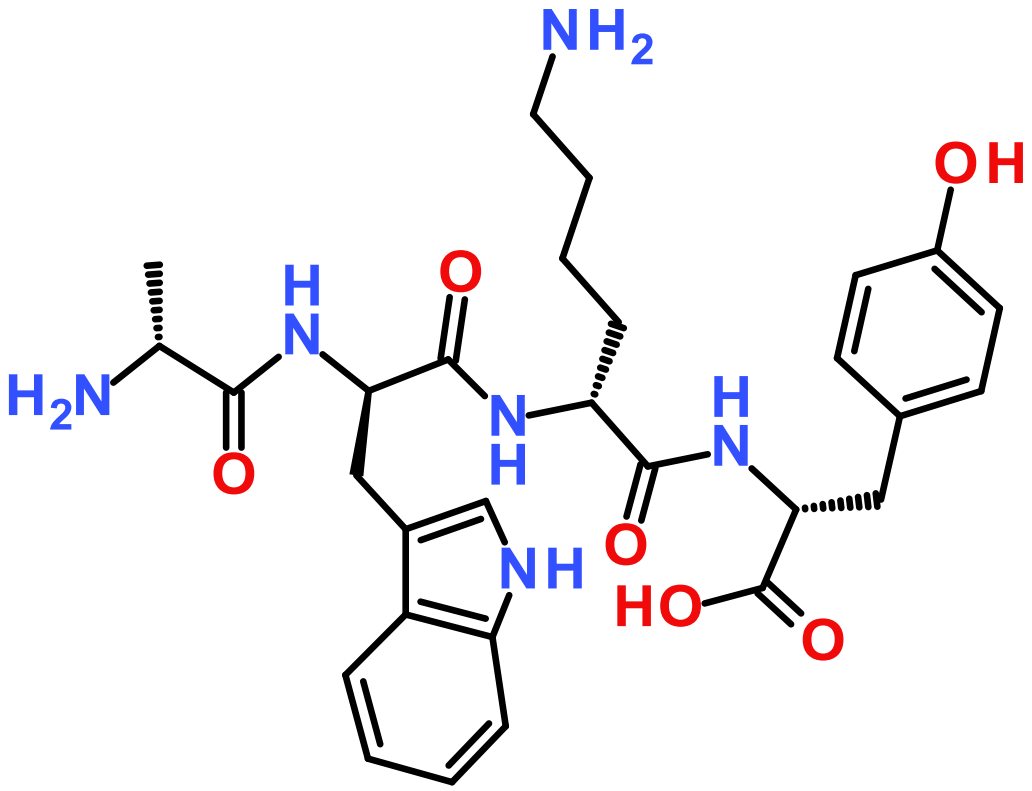
C. Ala-Trp-Lys-Tyr

D. Arg-Lys-Trp-Ala

E. Val-Trp-Lys-Cys

F. Met-Leu-Ala-Tyr

G. Gly-Phe-Asp-Lys



What is the correct name of this tetrapeptide?

2016-12-02 Q1

A. Tyr-Lys-Trp-Ala

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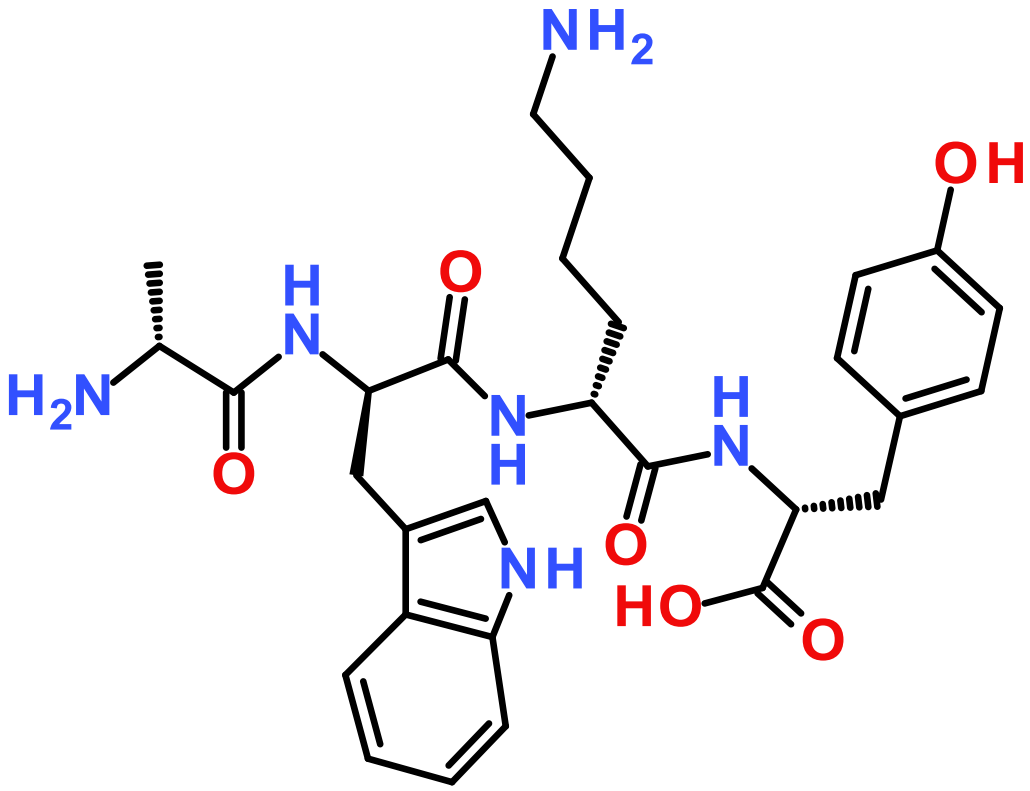
G. Gly-Phe-Asp-Lys



Exam 4 (Cumulative Exam)

- **Time:**
  - **Thursday, December 8: 2:00 – 4:00PM OR**
  - **Saturday, December 10: 10:00 am – Noon OR**
  - **Saturday, December 10: 1:00 – 4:00PM**
- **Location – Soc/Anthro Testing Center**
  - Chapters will be covered in this order: Chapter 18, 19, 20
- **Practice Exams are Posted**
  - Ex4-90A Practice Final Exam
  - Ex4-90B Practice Final Exam
- **Deadline for alternate arrangements is Monday, 12/5/2016 at 4:30 PM (i.e., close of business)**
  - **An oral make-up exam will be required for making up the exam for all students not taking the exam on the above dates or having already made prior arrangements**

Assignment	Due Date
Ex4-01-B7-18-06B Claisen Condensation	Friday, November 11, 2016
Ex4-02-B7-18-06C Claisen Condensation	Saturday, November 12, 2016
Ex4-03-B7-18-08B A-B Unsaturated Rxns	Sunday, November 13, 2016
Ex4-04-B7-18-08C A-B Unsaturated Rxns	Monday, November 14, 2016
Ex4-05-B7-18-09A Carb Classification	Tuesday, November 15, 2016
Ex4-06-B7-19-01 Hemiacetal Formation	Wednesday, November 16, 2016
Ex4-07-B7-19-02 Carbohydrate Reactions	Thursday, November 17, 2016
Ex4-08-B7-19-02 Kiliani-Fischer Synthesis	Friday, November 18, 2016
Ex4-09-B7-19-03 Important Carbohydrates	Monday, November 28, 2016
Ex4-10-B7-19-04 Carbs in Blood Types	Monday, November 28, 2016
Thanksgiving Break	
Ex4-11-B7-20-01 Amino Acid Nomenclature	Tuesday, November 29, 2016
Ex4-12-B7-20-01B Amino Acid Naming	Wednesday, November 30, 2016
Ex4-13-B7-20-02 Amino Acid Acid Base	Thursday, December 1, 2016
Ex4-14-B7-20-03 Edmann Degradation	Friday, December 2, 2016
Ex4-15-B7-20-04 Merrified Peptide Synthesis	Saturday, December 3, 2016
Ex4-16-B7-20-05 Synthesis in Peptides	Sunday, December 4, 2016

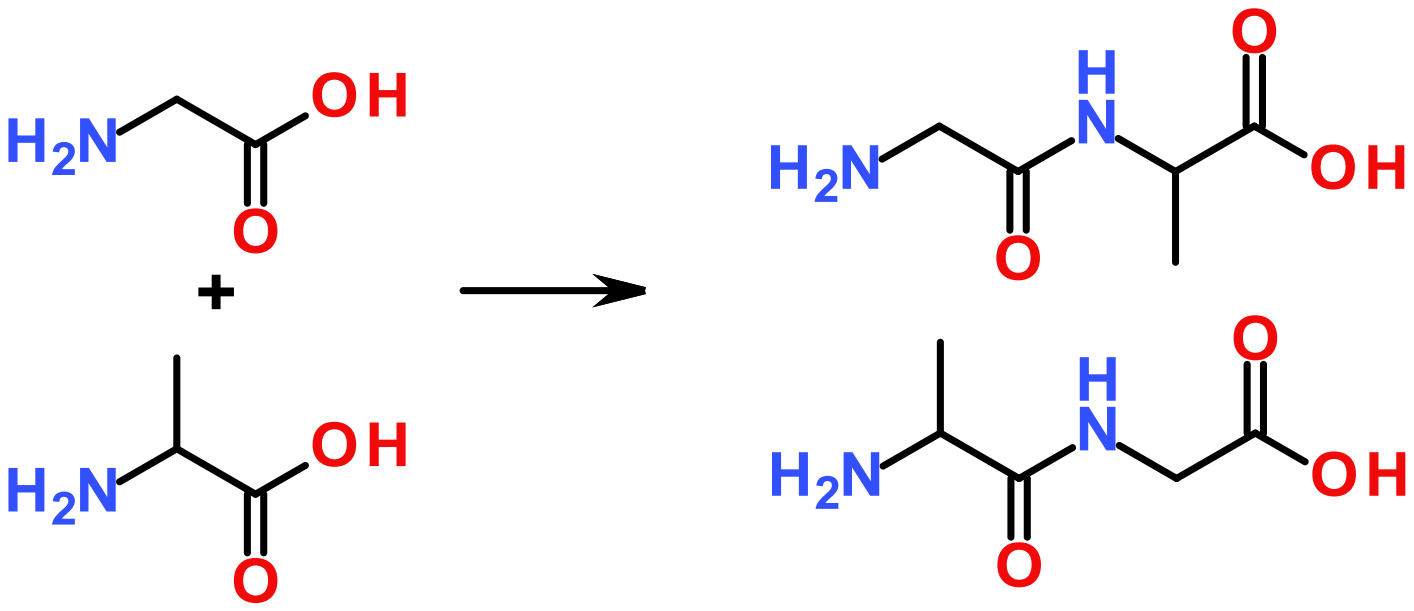
If all goes well,

- The lecture on Monday, December 5 will be a help session.
- Homework grades should be posted by Tuesday, December 6
- Class participation grades should be posted by Tuesday, December 6
- Read ahead bonus grades should be posted by Tuesday December 6

Amino Acid Acid/Base Assignment

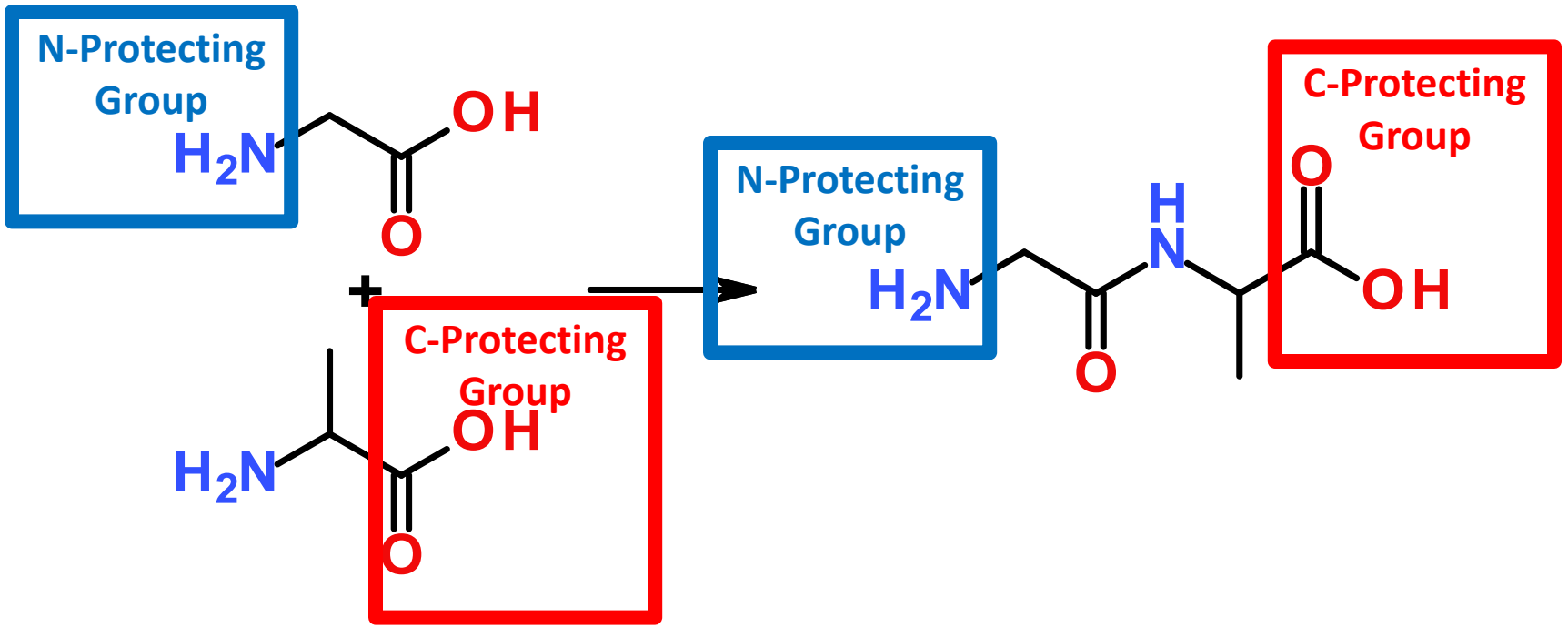
- Practice Version will be scored for homework.
- The Deadline version is inadvertantly not available.

Towards Oligopeptides



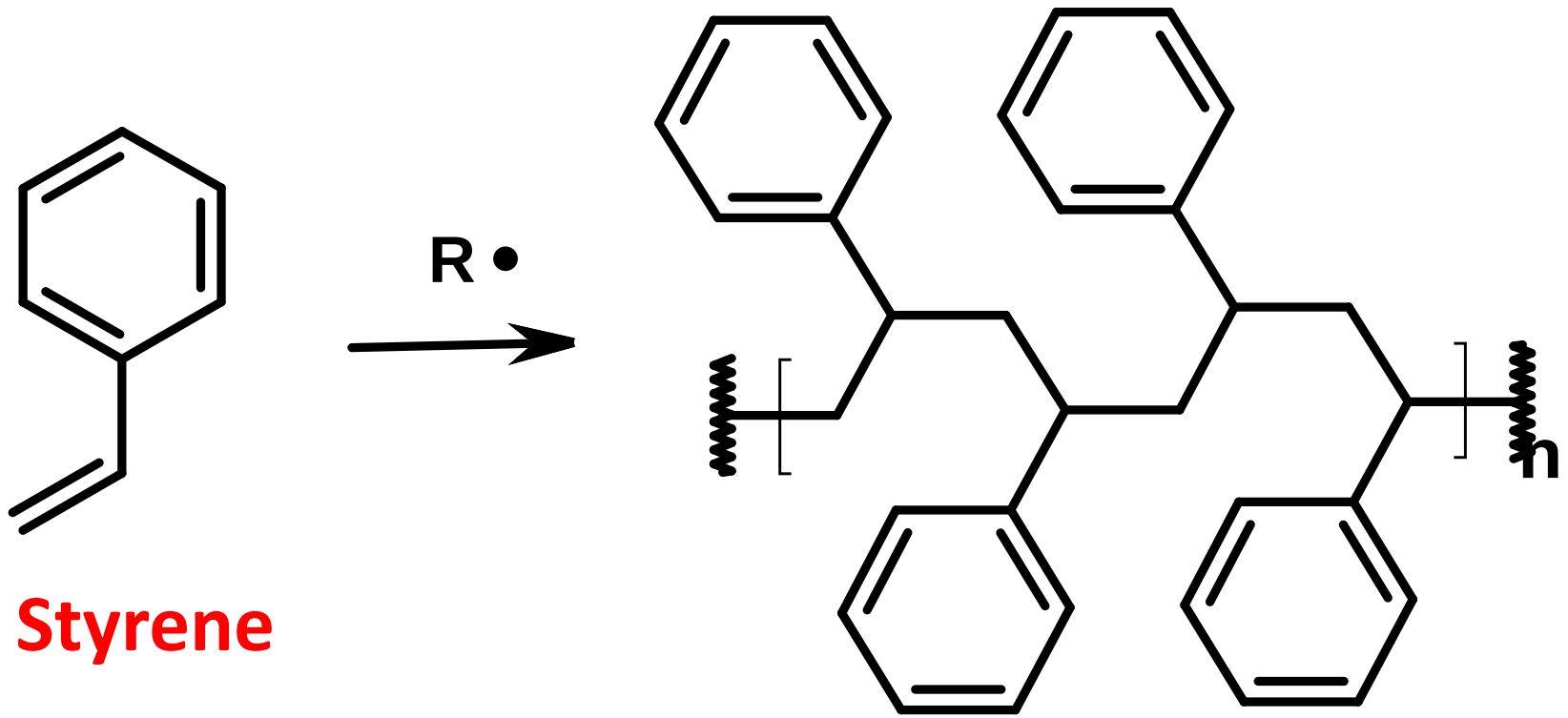
2 different dipeptides!

Towards Oligopeptides



Only one way to react together!

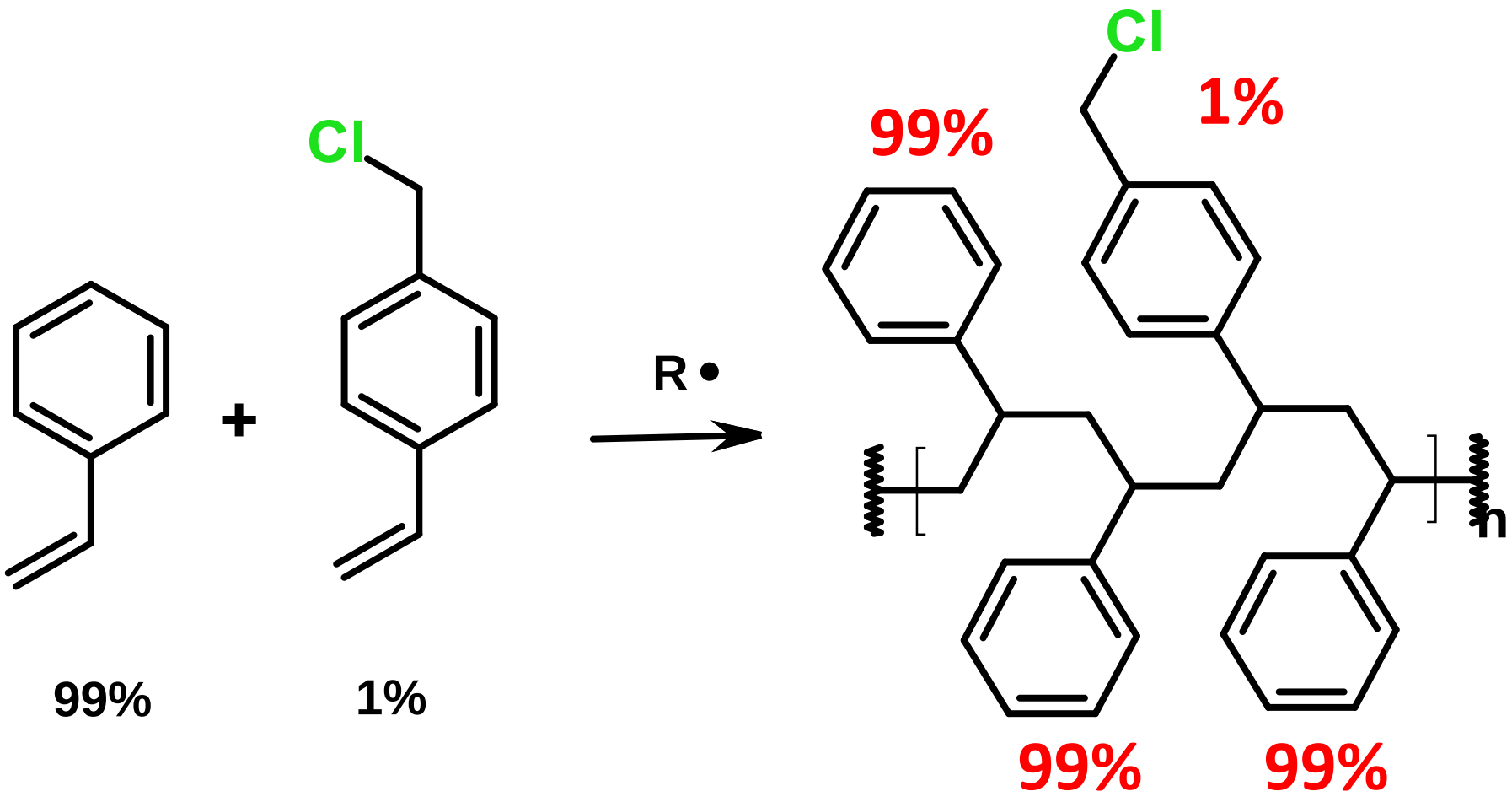
Towards C-Protection



Styrene

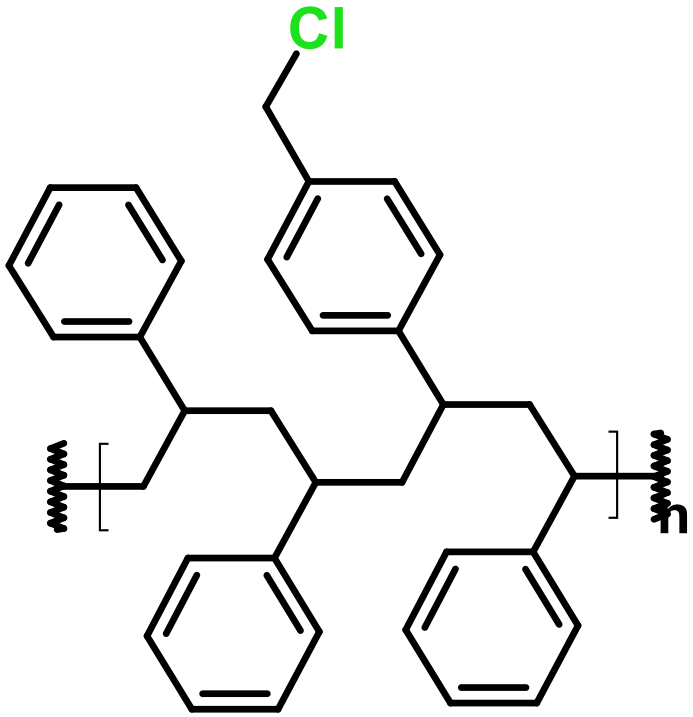
Polystyrene

Towards C-Protection

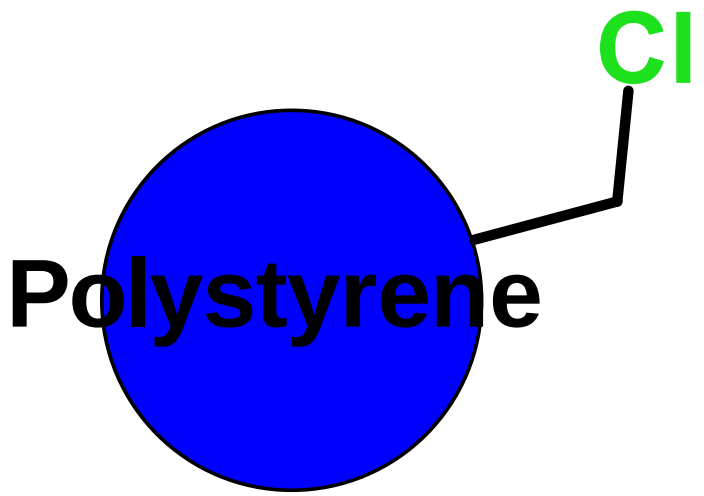


C-Protecting Group

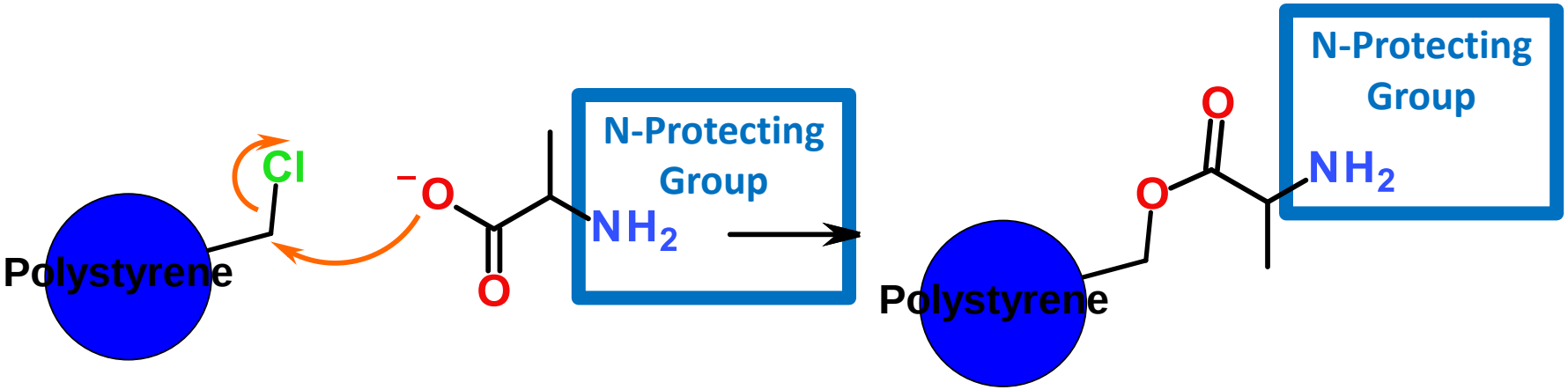
- Benzyl Chloride Infused Polystyrene



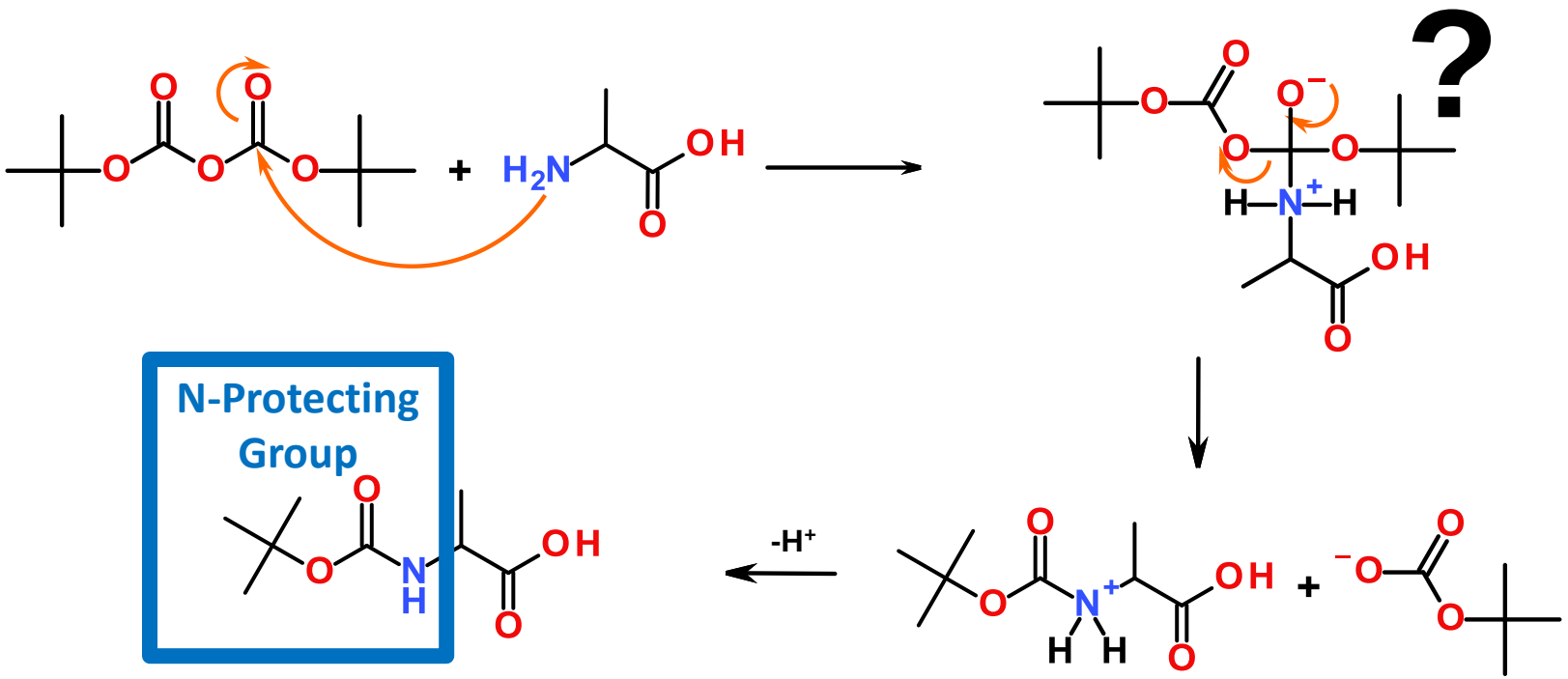
- Cartoon Representation



C-Protection

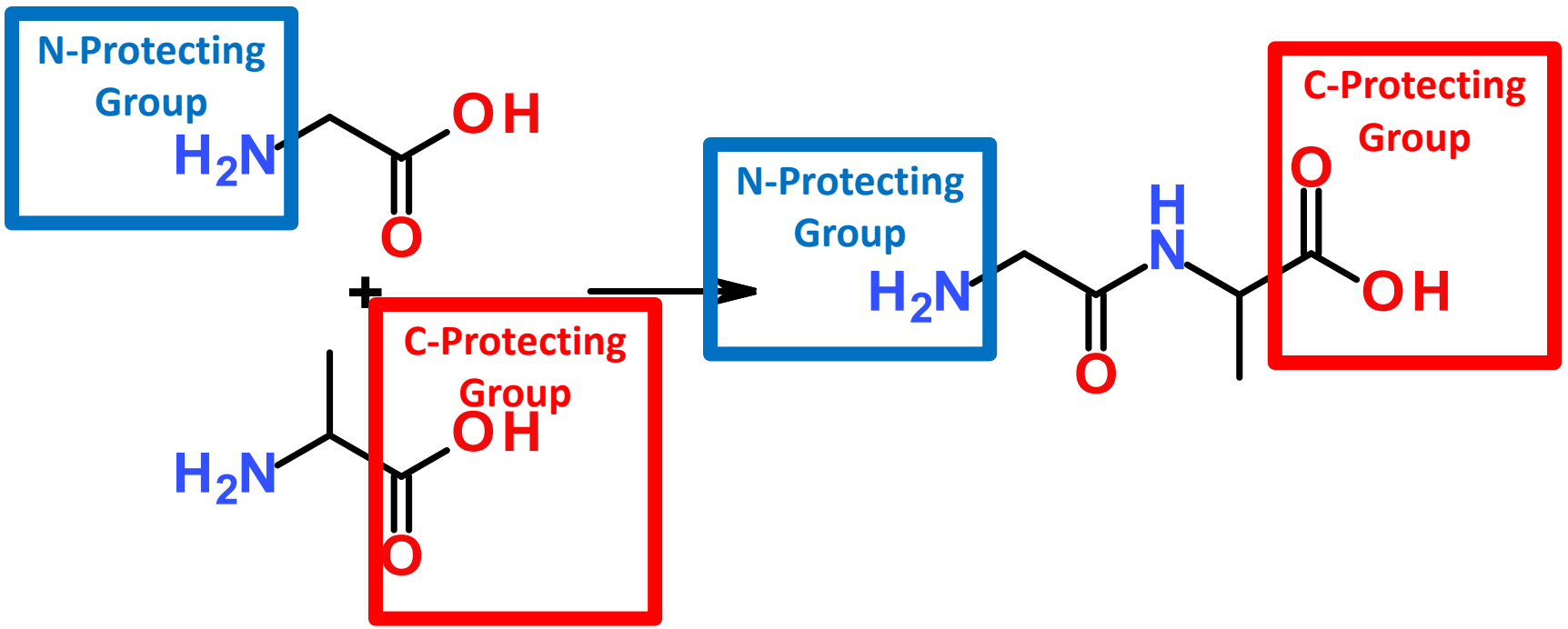


N-Protection



t-Boc Protecting Group

Towards Oligopeptides

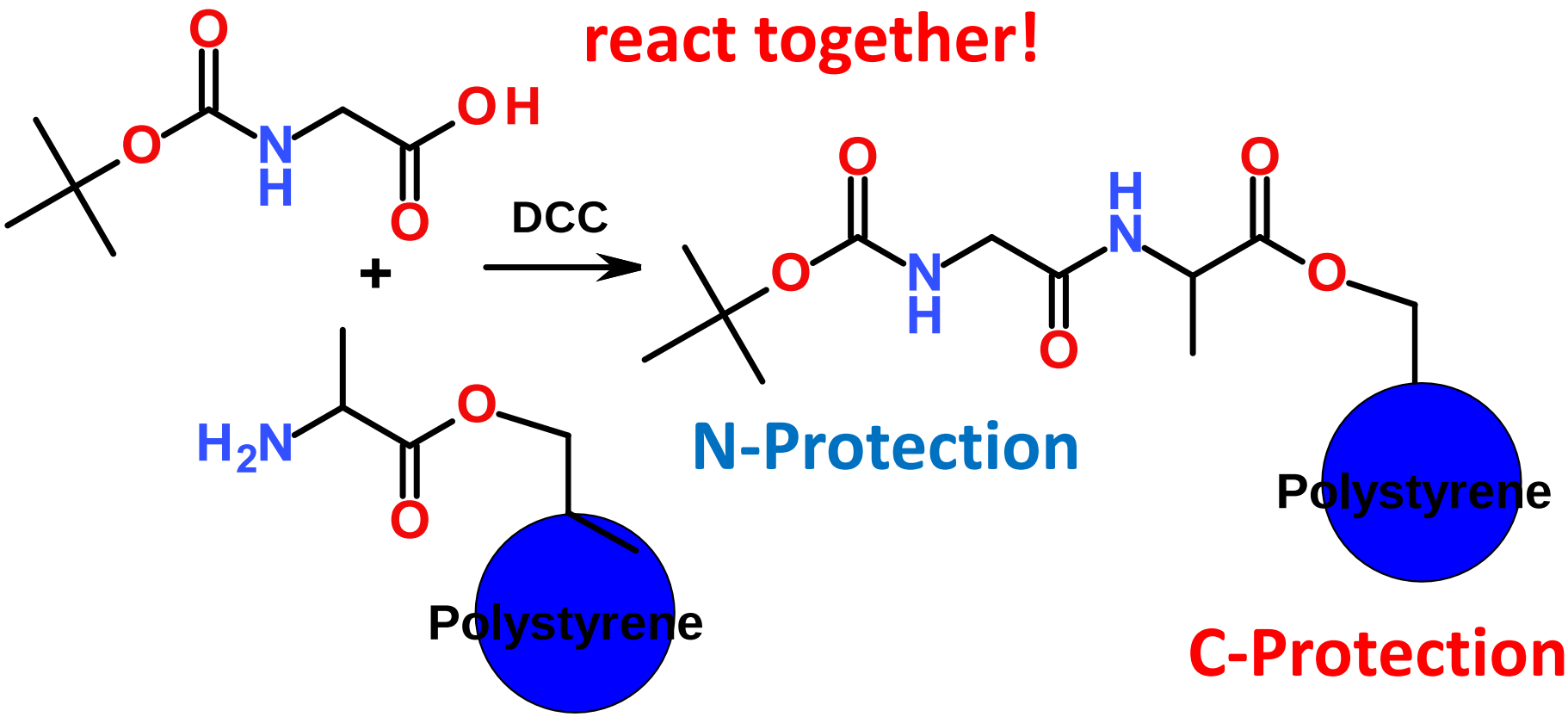


Review: This is the goal

Real Structures

N-Protection

Only one way to react together!



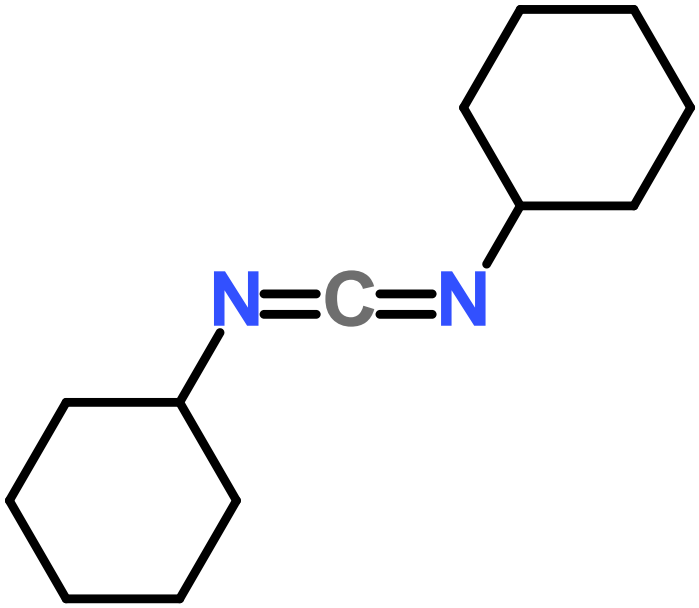
N-Protection

C-Protection

C-Protection

DCC

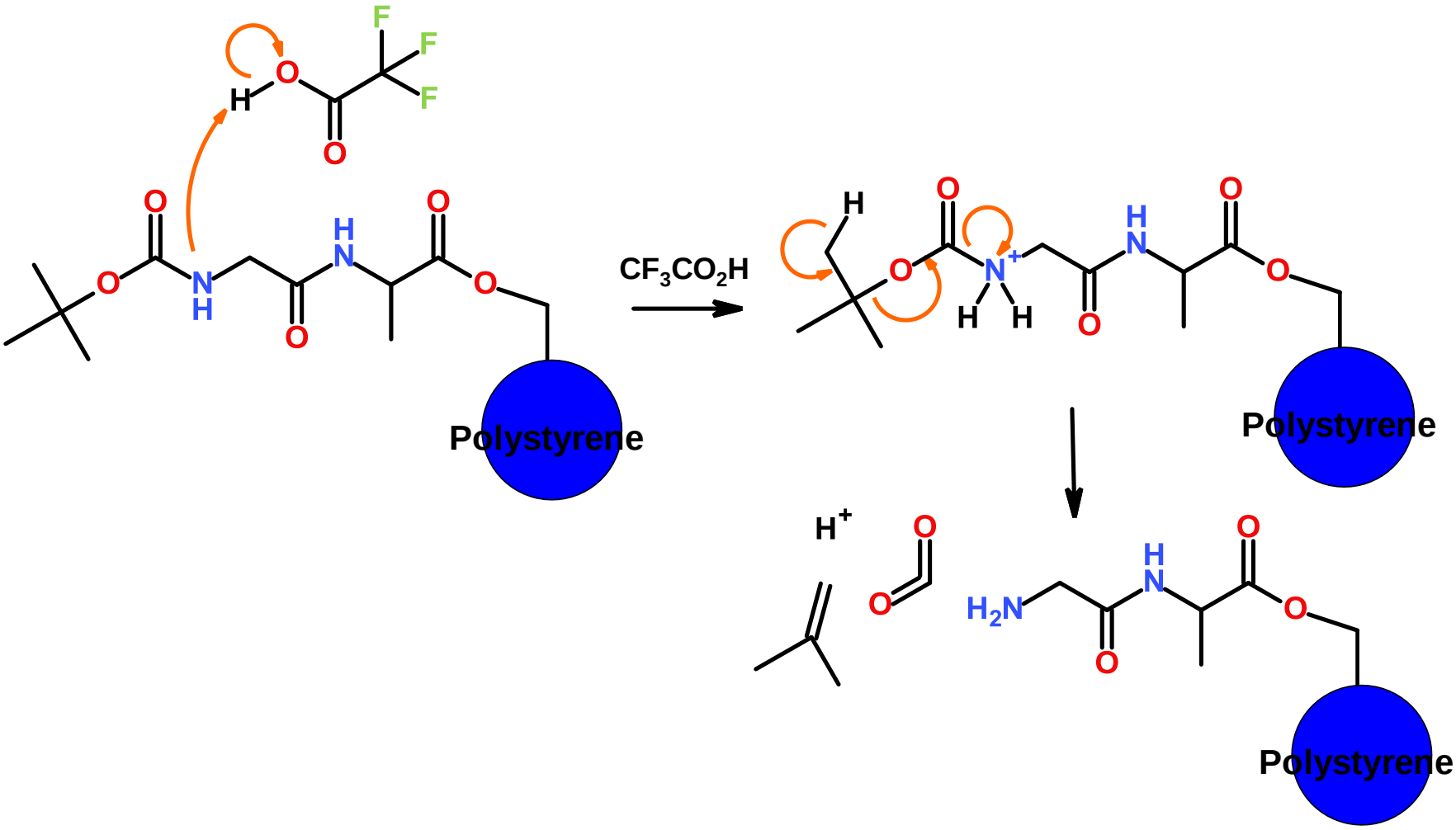
Couples N of 1 AA to the C of the next AA



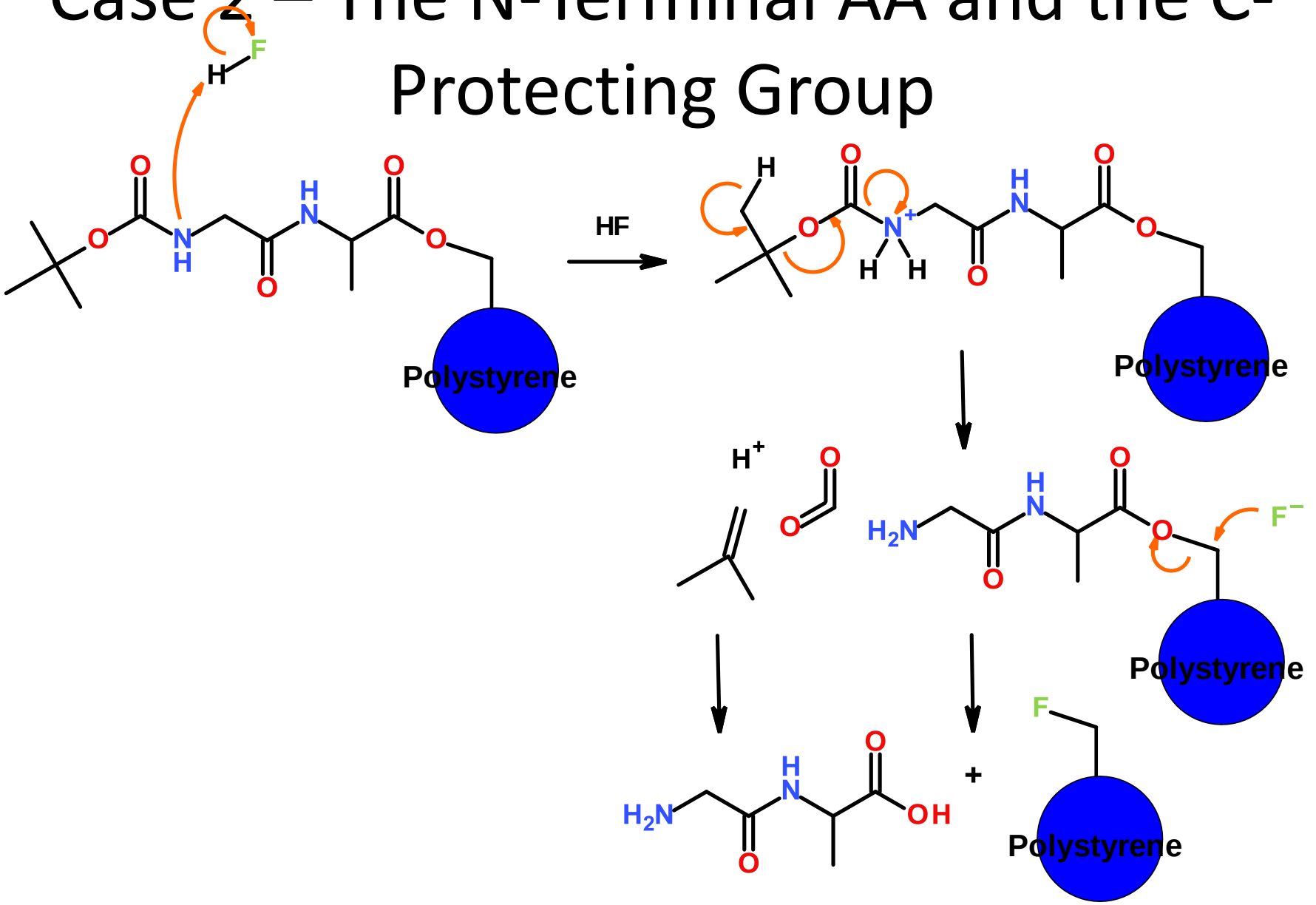
Dicyclohexylcarbodiimide

Coupling mechanism available upon request

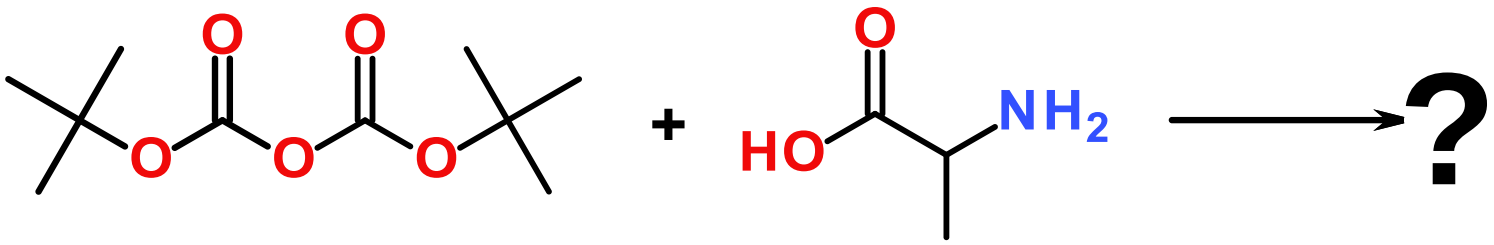
Unprotecting the N-Protecting Group: Case 1 – Only the N-Terminal AA

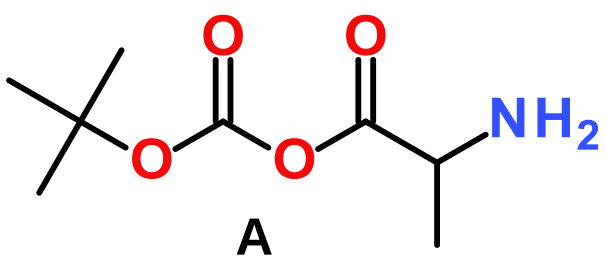


Unprotecting the N-Protecting Group: Case 2 – The N-Terminal AA and the C-Protecting Group

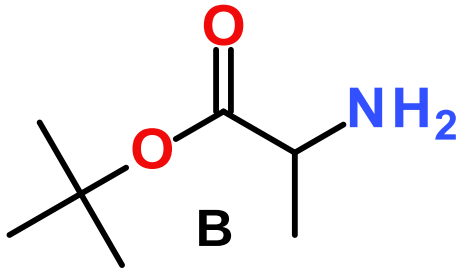


What are the products of the following reaction? Make sure to give your answer as a text answer. More than one answer could be correct.

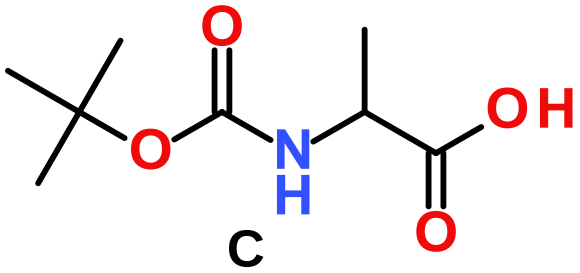




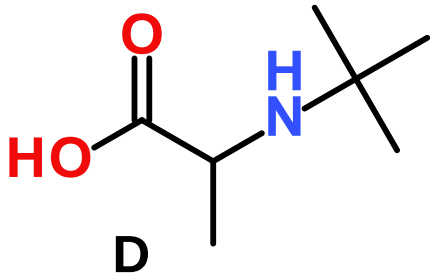
A



B



C

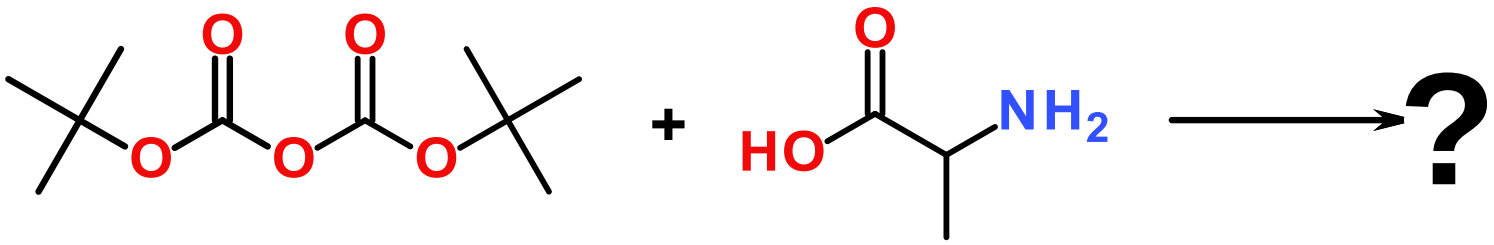


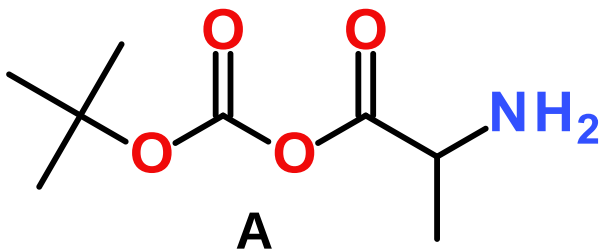
D

E – None of these answers is correct, or there is no correct answer here.

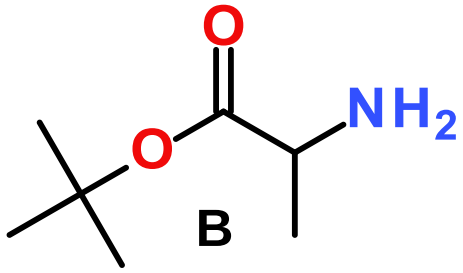
2016-12-02 Q2

What are the products of the following reaction? Make sure to give your answer as a text answer. More than one answer could be correct.

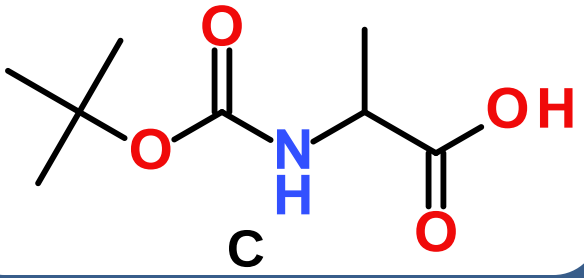




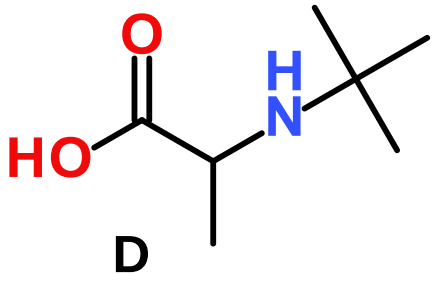
A



B



C

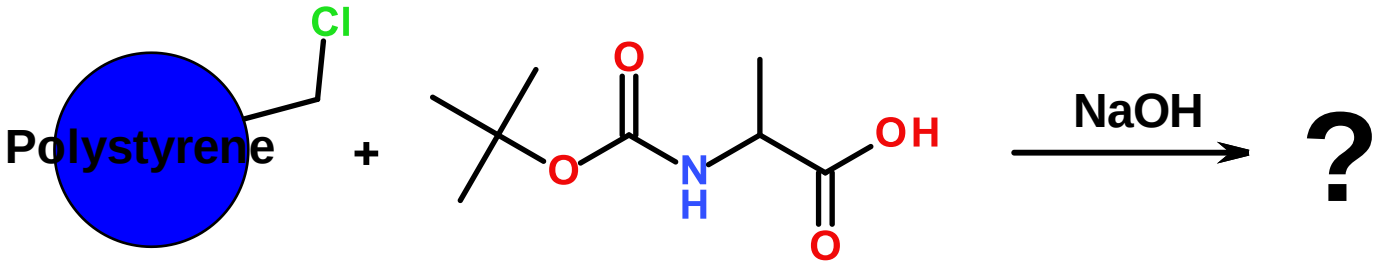


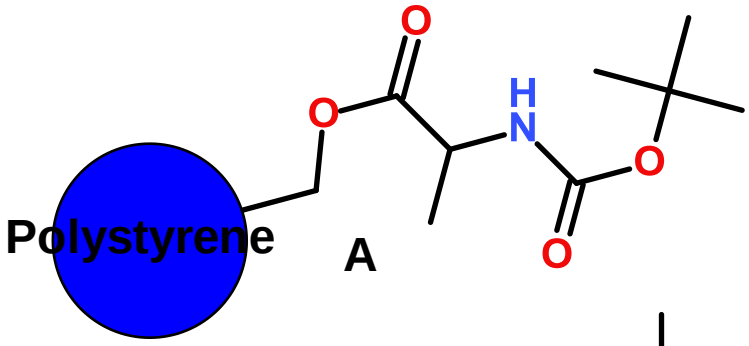
D

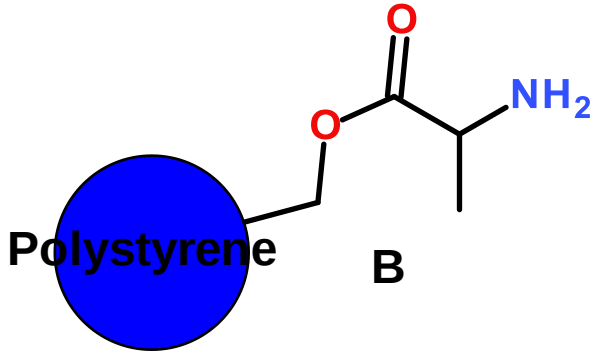
E – None of these answers is correct, or there is no correct answer here.

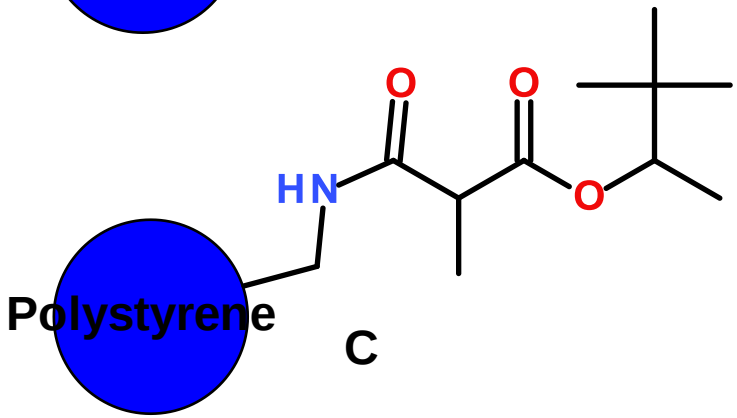
2016-12-02 Q2

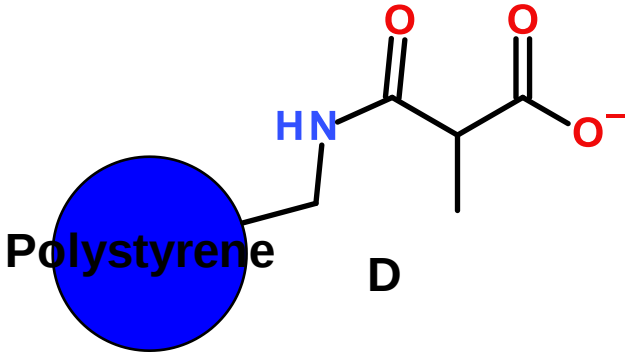
What are the products of the following reaction? Make sure to give your answer as a text answer. More than one answer could be correct.







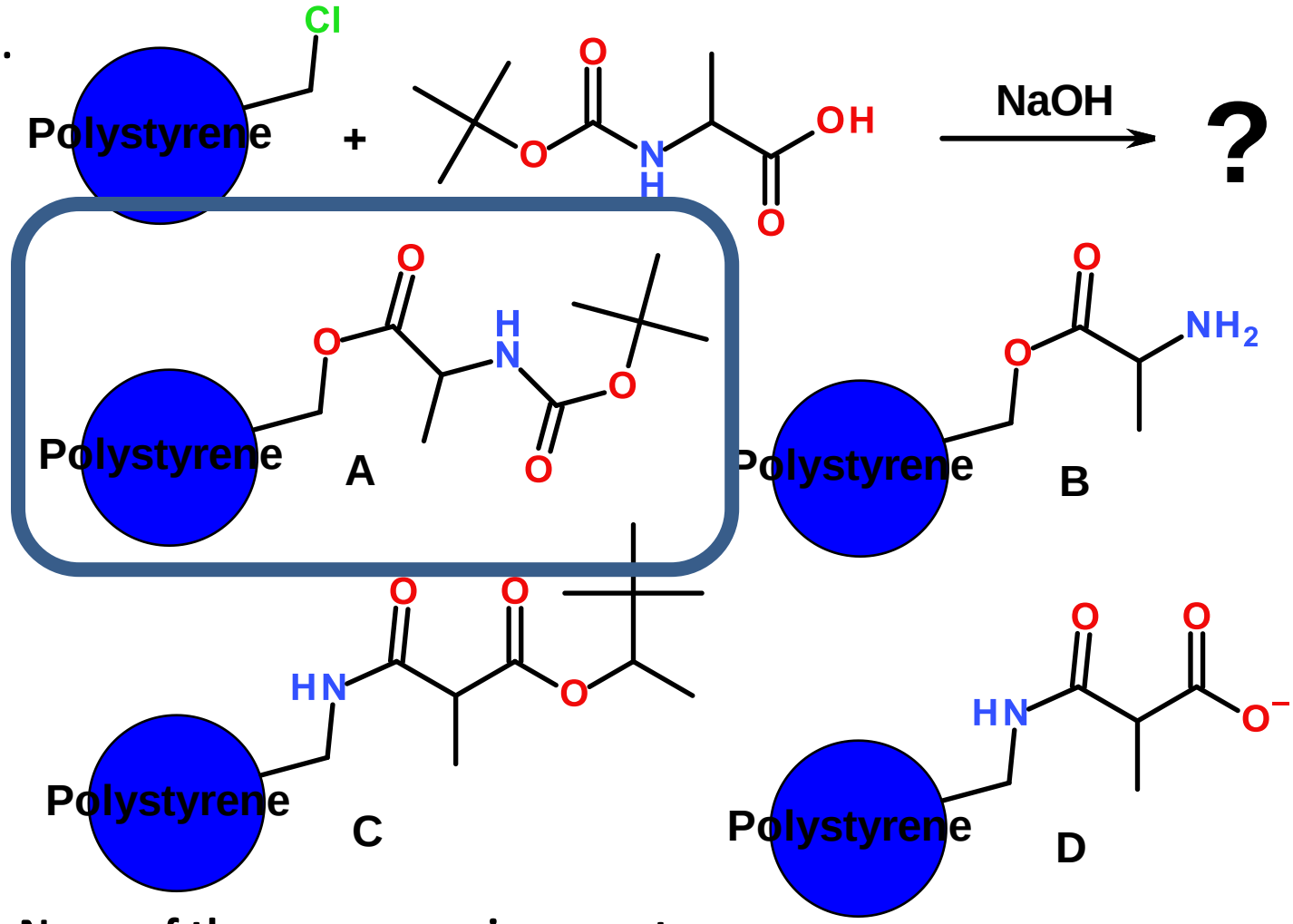




E – None of these answers is correct, or there is no correct answer here.

2016-12-02 Q3

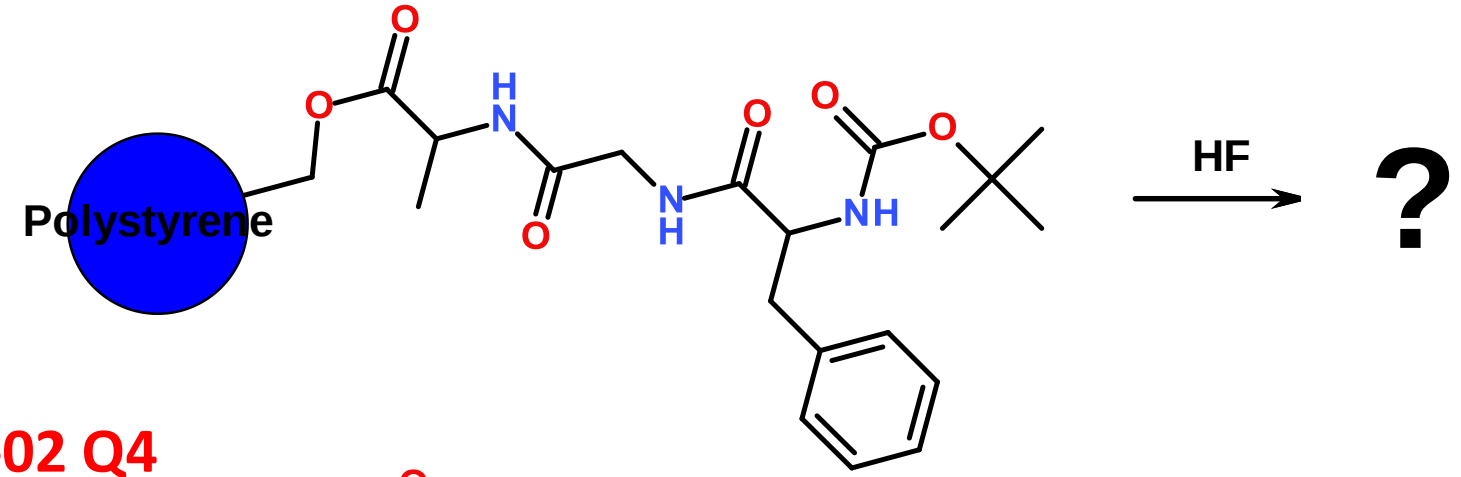
What are the products of the following reaction? Make sure to give your answer as a text answer. More than one answer could be correct.



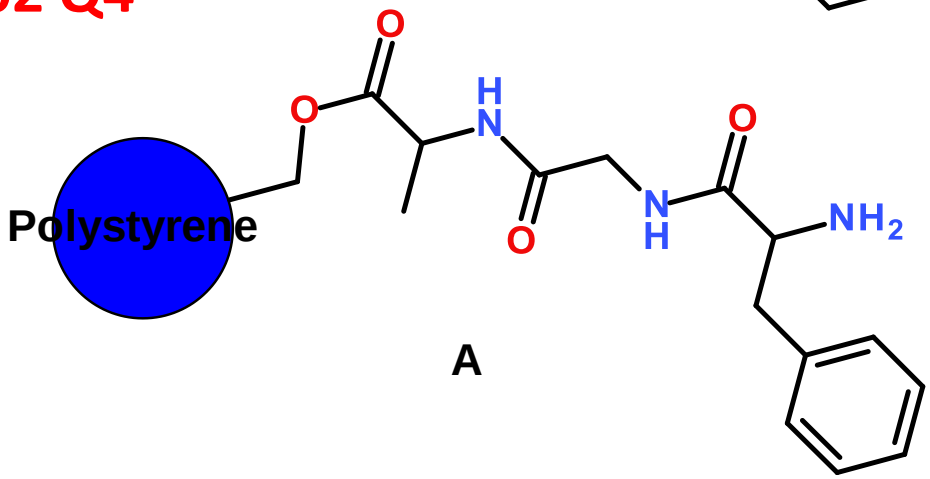
E – None of these answers is correct, or there is no correct answer here.

2016-12-02 Q3

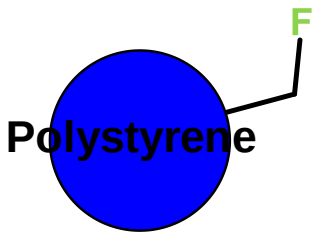
What are the products of the following reaction? Make sure to give your answer as a text answer. More than one answer could be correct.



2016-12-02 Q4



A



B

Phe-Gly-Ala

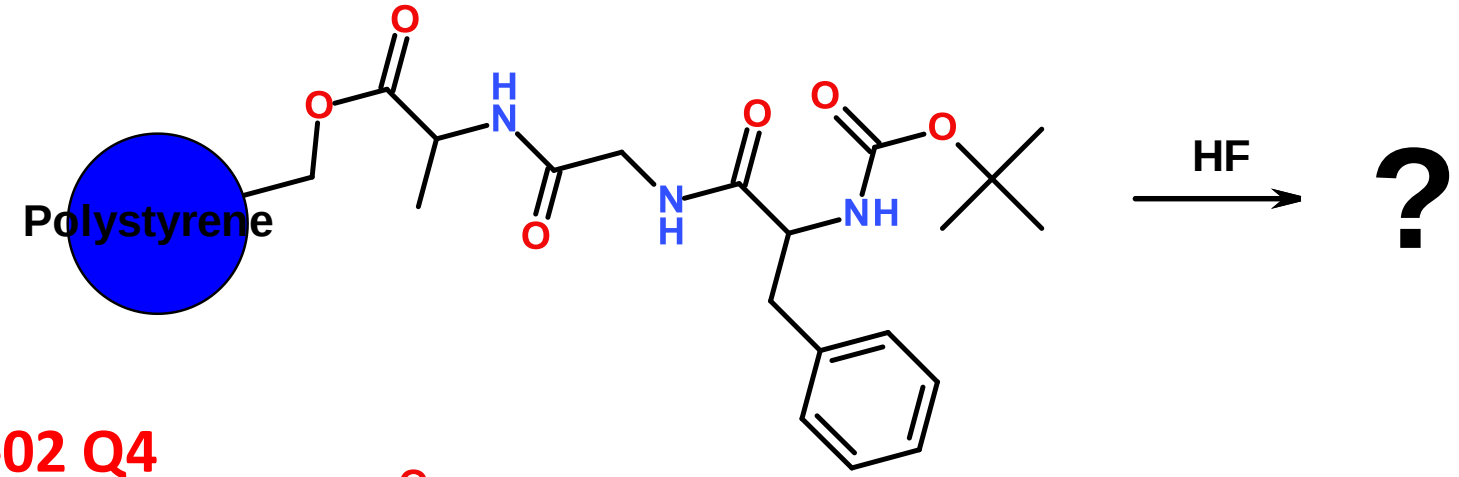
C

Ala-Gly-Phe

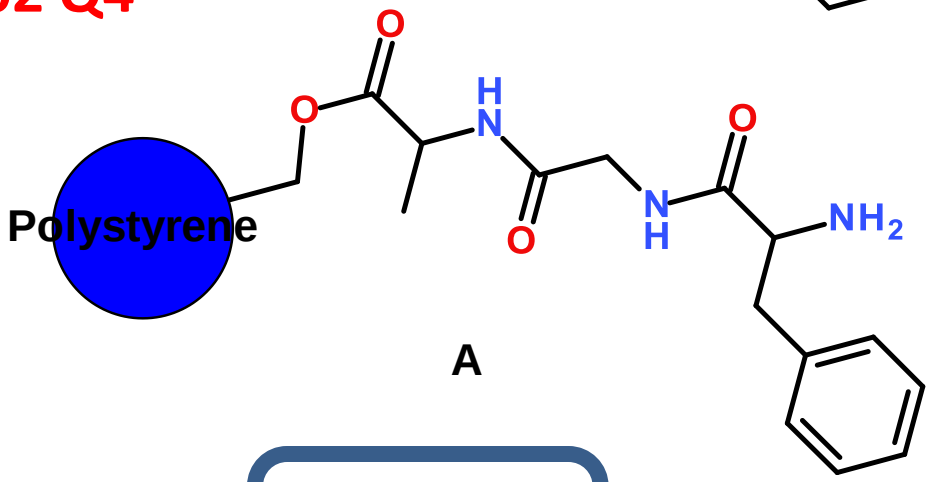
D

E – None of these answers is correct, or there is no correct answer here.

What are the products of the following reaction? Make sure to give your answer as a text answer. More than one answer could be correct.



2016-12-02 Q4



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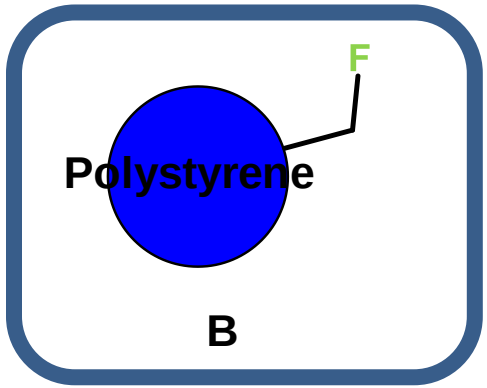

B

Phe-Gly-Ala

C

Ala-Gly-Phe

D

E – None of these answers is correct, or there is no correct answer here.