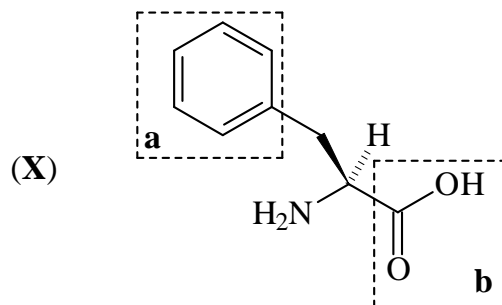


Marks
6

- Phenylalanine is a naturally occurring amino acid. Only the enantiomer (**X**) is commonly produced in nature.



What is the molecular formula of (**X**)?

List the substituents attached to the stereogenic centre in descending order of priority according to the sequence rules.

highest priority

lowest priority

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What is the absolute stereochemistry of (**X**)? Write (*R*) or (*S*).

Name the functional groups, highlighted by the boxes **a** and **b**, present in (**X**).

a =	b =
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