• Bupivacaine is the active molecule in some local anaesthetics. Of the two enantiomers, the one shown below (X) is the more effective.	Marks 7
NH (X)	
What is the molecular formula of (\mathbf{X}) ?	
Calculate the m/z value for the major peak you would expect to see for the molecular ion in the high resolution mass spectrum. [Atomic masses: ${}^{1}H = 1.0078$; ${}^{12}C = 12.0000$; ${}^{16}O = 15.9949$; ${}^{14}N = 14.0031$]	
Answer:	
List the substituents attached to the stereogenic centre in descending order of priority according to the sequence rule.	
highest priority lowest priority	_
What is the absolute stereochemistry of (\mathbf{X}) ? Write (R) or (S) .	
Name the functional groups present in (\mathbf{X}) .	
	I