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Daughter ion mass spectra of oxytocin derivatives with modified disulfide bonds

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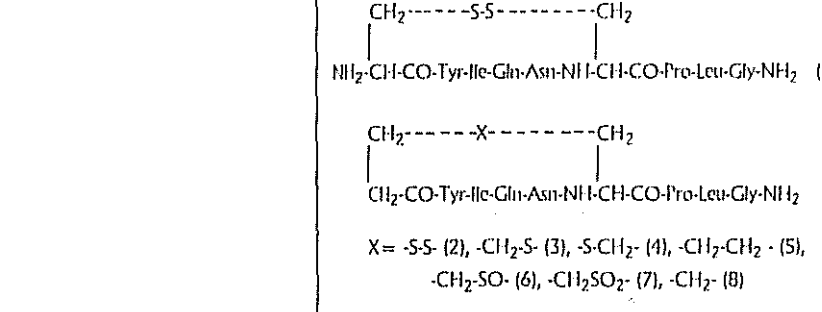
A series of eight oxytocin derivatives has been studied : oxytocin (1), deaminooxytocin (2), deamino-1-carbaoxytocin (3), deamino-6-carbaoxytocin (4), deamino-1,6-dicarbaoxytocin (5), sulfoxide of deamino-1-carbaoxytocin (6), sulfone of deamino-1-carbaoxytocin (7), and 6,1-x-aminopimelic acid oxytocin — see Scheme.



Scheme

Mass spectra have been obtained on a ZAB-EQ mass spectrometer (VG Analytical Ltd., Manchester, UK) supplied with 35 kV caesium ion gun. B/E linked scan technique with collision activation in FFR was used. Collision gas was helium, pressure in the collision cell responses to 50 % transmission of molecular ion of oxytocin (1). Matrix was glycerol with 5 % of heptafluorobutyric acid.

The daughter ion mass spectra of the series studied show the same basic features as follows : the aminoterminus fragments are dominating with the most abundant B_6, B_7, B_8, and B_9 fragments corresponding to the cleavage of peptide bonds in the chain outside the ring.