

# TODAY IN CHEMISTRY HISTORY

12<sup>TH</sup> MAY – DOROTHY HODGKIN'S BIRTHDAY



DOROTHY HODGKIN

BORN

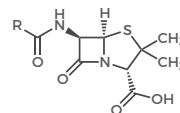
12 May 1910

DIED

29 July 1994



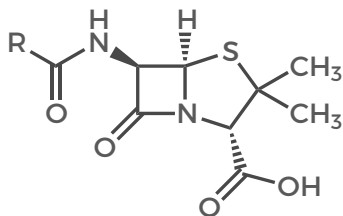
1964



Hodgkin used X-ray crystallography to determine the structure of vitamin B<sub>12</sub>, for which she won a Nobel Prize. She went on to determine the structure of insulin.

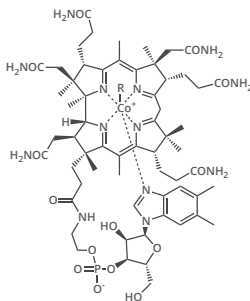
## KEY STRUCTURES DETERMINED BY HODGKIN

PENICILLIN (1945)



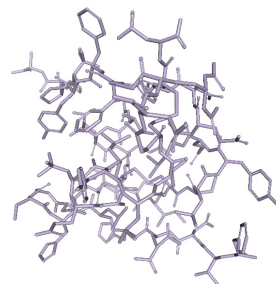
Hodgkin confirmed the structure of penicillin – the first time the structure of a whole molecule had been calculated using X-ray data.

VITAMIN B<sub>12</sub> (1955)



Vitamin B<sub>12</sub> was, at the time, the most complex molecule tackled by X-ray crystallography. Its structure took Hodgkin eight years to solve.

INSULIN (1969)



Hodgkin first grew crystals of insulin in 1935, but it was another 34 years before she determined its three-dimensional structure.



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