

A complex of histamine with cell lecithin

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Abstract

Methods of quantum chemistry and ¹H, ¹³C, ¹⁵N NMR spectroscopy studied the complexation of histamine molecules with the cell lecithin. The formation of new type of complex due to interaction of the nitrogen atom, trailing hydrocarbon chain of histamine with the choline group of lecithin has been shown. The simultaneously existence of two types of complexes in aqueous solution with the histamine lecithin was conformed by the results of two-dimensional ¹H, ¹⁵N NMR spectroscopy.