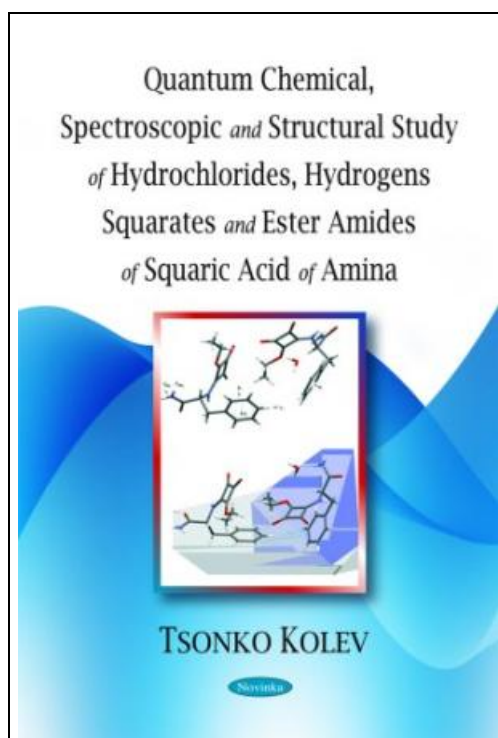


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## QUANTUM CHEMICAL, SPECTROSCOPIC AND STRUCTURAL STUDY OF HYDROCHLORIDES, HYDROGENS SQUARATES AND ESTER AMIDES OF SQUARIC ACID OF AMINA

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Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Quantum Chemical, Spectroscopic and Structural Study of Hydrochlorides, Hydrogens Squarates and Ester Amides of Squaric Acid of Amina, Tsonko Kolev, The interest to amino acid amides arises from their biological important role. Some C-terminally-amidated amino acids Ile, Val, Thr, Ser, Met, Trp, Gln and Arg have been studied by single crystal X-ray diffraction and their bioactivity have been compared with the corresponding amino acids due to most of mammalian peptide hormones as calcitonin, gastrin, neurokinins or neuropeptides possess a C-terminal-amides. The most C-terminal-amides are much more biologically active, comparing with the corresponding C-terminal free acids. For example the "potency ratio" of peptide amide towards the corresponding peptide free acid in neurocinin is more than 40 000. Since the protonated forms of amino acid amides and C-terminal-amidated peptides exists in the living cell their investigation could provide an understanding of their biological role. The choice of the acidity agent for the in vitro investigations are based mainly of its own biological activity as for example squaric acid (H<sub>2</sub>Sq). Its application for synthesis of optically active amino acid derivatives with potential non-linear optical and electro-optical properties is well known, but its important biological role is intensively studied in last five years. A large number of medications based on H<sub>2</sub>Sq derivatives are effective inhibitors of protein tyrosine phosphatases or DNA polymerases from several viruses. H<sub>2</sub>Sq diamides replaced a phosphate diester linkage in oligodeoxynucleotide. Selective antagonist of ionotropic glutamate receptors is obtained by replacing of C-terminal-carboxylic acid of a glutamate residue within a polyamine toxin with squaric acid derivatives. Some H<sub>2</sub>Sq-based peptides are inhibitors of matrix metalloprotease V1. These facts provoked the systematic investigations of hydrochlorides, hydrogensquarates and ester amides of squaric acid of amino acid amides of Ala, Arg, Tyr,...



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