



Quantum Chemical, Spectroscopic and Structural Study of Hydrochlorides, Hydrogens Squarates and Ester Amides of Squaric Acid of Amina

By Tsonko Kolev

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-nGDP γ - 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, neuropeptides or neuropeptides possess a C-GBP γ -terminal-amides. The most C-GBP γ - amides are much more biologically active, comparing with the corresponding C-GBP γ - terminal free acids. For example the "potency ratio" of peptide amide towards the corresponding peptide free acid in neuropeptides is more than 40 000. Since the protonated forms of amino acid amides and C-GBP γ -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 (H₂Sq). Its application for synthesis of optically active amino acid derivatives with potential non-linear optical and electro-optical properties is well known,...

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