Henia Bouzidi Mousser et al., Int J Chem Res. 2020
DOI: dx.doi.org/10.18689/2642-1615.a3.003

Synthesis, Characterization and Biological Activities Evaluation of Two Novel Symmetrical Azine Schiff Bases

Henia Bouzidi Mousser[1,3]*, A. Dellouche[1,2], S. Merniz[1], L.Khattabi[4] and S. Fleutot[5]
[1]Ecole Normale Supérieur Assia Djebar Constantine, Algeria
[2]Faculté de Médecine, Ville Universitaire Constantine 3, Algérie
[3]Ecole Normale Supérieure Assia Djebarde Constantine, Algérie
[4]Centre de Recherche en Bio Technologie, Algérie
[5]University Pole Ain El Bey Constantine, Algeria
[6]Institut Jean Lamour, Campus Artem, France

Azines, commonly known as bis Schiff bases, are a big class of compounds that undergo a wide variety of chemical and pharmacological processes and have been used as intermediates in heterocyclic synthesis. Literature survey revealed that azines were found to possess antimicrobial and anticancer activities. Although symmetrical azines are readily synthesized by the reaction of hydrazine with an excess of an aldehydes herein we report the preparation and the characterizations of two novel symmetrical azines and explore their biological activities for the first time.^{1}H NMR, ^{13}CNMR, UV-Vis, FT-IR Spectroscopy and DRX were used to characterize these azines structures. In addition, recent investigations described potential benefits of Schiff bases inreductive antioxidant capacity activities. Acetylcholinesterase (AChE) and butyrylcholinesterase (BChE) evaluation inhibitory of these two new azines Schiff bases were measured and were compared to those of standard drugs.

Biography:

Henia Bouzidi Mousser was a Lecturer since September 2004 and Research Director since September 2005. Professor since December 2010. Head of Department of Physics and Chemistry since April 2014 to September 2019 and Vice director in charge of post graduation and scientific research to date at the ENSADC (Algeria). Teachings : General Chemistry, Organic chemistry, Analytical Chemistry, Mineral Chemistry, Electrochemistry, Thermodynamics, Chemical kinetics, Surfaces Chemistry, Interfaces Physical Chemistry, Chemistry of surfactants. Several scientific and administrative responsibilities (project manager, thesis director, training manager, research laboratory director and department head). Author of over 20 Research articles and about 20 international conférences.