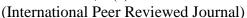


Journal of Applicable Chemistry

2017, 6 (5): 983-990





ISSN: 2278-1862

Synthesis, Characterization and Biological Evaluation of Novel Sulfonamides Containing N-((1-Alkyl-5-(Substituted Phenyl)-1*H*-Benzo[D]Imidazol-2-Yl) Methyl) Substituted Aryl/Alkyl Sulfonamide Derivatives

Naresh Kachhadiya, Kalpesh Menpara, Dharmesh Pansuriya, Jignesh Menpara and Kartik Ladva*

*Chemical Research Laboratory, Shree M.&N Virani Science College, Saurashtra University, Rajkot, INDIA

Email: kdladva@vsc.edu.in

Accepted on 20th September 2017, Published online on 27th September 2017

ABSTRACT

A series of novel N-((1-alkyl-5-(substituted phenyl)-1H-benzo[d]imidazol-2-yl) methyl) substituted aryl/alkyl sulfonamide derivatives were synthesized for evaluation of their antimicrobial activity. The newly synthesized compounds were characterized by spectroscopic studies such as 1H NMR, Mass spectroscopy. All the synthesized compounds were screened for their in vitro antimicrobial activity. Some of the compounds showed good biological activity.

Keywords: Antimicrobial activity, 1-ethyl-5-(4-fluorophenyl)-1H-benzo[d]imidazol-2-yl) methanamine.