

ABSTRACT

Sulfonamides are under research of many organic synthetic chemists due to their potential activity against the different enzymes and bacterial strains. The presented work is based on the synthesis of various sulfonamides derived from substituted aniline in a basic aqueous media. These synthesized compounds were screened against α -Chymotrypsin enzyme to evaluate their biological activity and only **3a** was found to active against this enzyme. All the synthesized compounds were characterized by the ^1H -NMR, IR and EIMS spectral data.