ABSTRACT

A series of N-alkyl substituted sulfonamide and dibromosulfonamide derivatives has been synthesized. The reaction of tosyl chloride and 2-methoxyphenylamine (o-anisidine) yielded, N-(2-methoxyphenyl)-4-methylbenzenesulfonamide which on further treatment with sodium hydride/lithium hydride and different alkyl halides furnished into a series of new derivative . These derivatives were characterized by 1H-NMR and EI-MS and then screened against acetylcholinesterase, butylcholinesterase, lipoxygenase, β glucuronidase and it was found that all derivatives showed different biological activity against different enzymes depending on their structures.