

Synthesis of Some new Sulfonamide Schiff's Bases and Study Their Gastroprotective Activity

Abstract

Substituted sulfonamides were reacted with thiophene carbaldehydes and piperonal to form Schiff's bases. The structures of synthesized compounds were confirmed by their IR, ^1H NMR spectroscopic data and mass spectra. Different necrotizing agents (80% ethanol, 0.2 M NaOH and 25% NaCl) were used to induced gastric lesions. The compounds were given orally 30 min before the administration of necrotizing agents. The percentages for compounds to ulcer protective were calculated. Compound 4 was more effective than other compounds and omeprazole itself. Compound 1 was approximate equal to omeprazole activity, and after that compounds 3 and 2 respectively were less active.