Patent Search

Invention Title	FORMULATION, SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF ORALDISPERSABLE TABLETS OF SCHIFF BASE COMPOUNDS
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Abstract:

The present invention relates to the synthesis and evaluation of orodispersable tablets of Schiff base compounds.The synthesis involves the 2-bromo-1-phenylethano (0.01mol), phenol (2) (0.01 mol) and K2CO3 (0.02 mol) in dry acetonitrile was refluxed for about 6 h. The mixture was filtered and solvent was removed under reduced The obtained product was purified by recrystallization from ethanol to afford compound 2-phenoxy-1-phenylethanone (3). The Schiff bases SA-3 and SA-4 were prepa refluxed of compound (3) with different aromatic anilines in the presence of glacial acetic acid (4) in ethanol. Anti-fungal activity of the test compounds was compared standard drug Clotrimazole and Terbinafine.

Complete Specification

FIELD OF INVENTION

The present invention relates to a synthesis and evaluation of oraldispersable tablets of Schiff base compounds.

BACKGROUND OF THE INVENTION

Schiff bases, derived mostly from variety of heterocyclic rings, were reported to possess a broad spectrum of pharmacological activities with a wide variety of biolog properties Development of new chemotherapeutic Schiff bases is now attracting the attention of medicinal chemist. They are known to exhibit a variety of potent ac pharmacologically useful activities include antibacterial, anticonvulsant, anti-inflammatory, anticancer, anti-hypertensive, anti-fungal, antipyretic, antimicrobial, anti- cytotoxic activity, hypnotic and herbicidal activities.

Schiff bases are identified as promising antimicrobial agents. The imine group present in such compounds (Schiff bases) has been shown to be essential for their bic activities. The ample evidence reported in the literature on the biological potential of Schiff bases containing C=N in their structure. The pharmacokinetic and pharmacodynamics behavior of molecules is influenced by their molecular properties, molecular size, flexibility and the presence of different pharmacophore featu vivo experimental determination of pharmacokinetic parameters of newly synthesized compounds is uneconomical and time consuming. The molecular properties compounds could help to eliminate the molecules likely to fail in the early stage of drug discovery.

For the past two decades, there has been an enhanced demand for more patient compliance dosage forms. As a result, the demand for their technologies has been three-fold annually. Since the development cost of a new chemical entity is very high, the pharmaceutical companies are now focusing on the development of new d

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