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Patent Search

Invention Title	SYNTHESIS, FORMULATION AND EVALUATION OF ANTI-FUNGAL CREAM OF SCHIFF BASE COMPOUNDS
Publication Number	10/2022
Publication Date	11/03/2022
Publication Type	INA
Application Number	202211004303
Application Filing Date	25/01/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	B82Y0005000000, C10L0003100000, A61K0031415000, A61K0047690000, C07C0209680000

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Abstract:

The present invention relates to the synthesis and evaluation of anti-fungal cream. The synthesis involves the 2-bromo-1-phenylethanone (1) (0.01mol), phenol (2) (0.0 K2CO3 (0.02 mol) in dry acetonitrile was refluxed for about 6 h. The mixture was filtered and solvent was removed under reduced pressure. The obtained product was recrystallization from ethanol to afford compound 2-phenoxy-1-phenylethanone (3). The Schiff bases SA-1 and SA-2 were prepared by refluxed of compound (3) with a aromatic anilines in the presence of glacial acetic acid (4) in ethanol. The molecular docking studies of a the compounds SA-1 and SA-2 were docked into the binding position human squalene epoxidase (6C6N) and 14-alpha-demethylase (5TZ1) target proteins belong to Candida albicans. Anti-fungal activity of the test compounds was computed standard drug Clotrimazole and Terbinafine.

Complete Specification

The present invention relates to a synthesis and evaluation of anti-fungal cream 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, anticytotoxic 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 bit activities. Clotrimazole and Terbinafine are the antifungal drugs containing nitrogen hetero atom into their structures. The ample evidence reported in the literature biological potential of Schiff bases containing C=N in their structure. The pharmacokinetic and pharmacodynamics behavior of molecules is influenced by their mole properties, molecular size, flexibility and the presence of different pharmacophore features. The in vivo experimental determination of pharmacokinetic parameters synthesized compounds is uneconomical and time consuming. The molecular properties of the new compounds could help to eliminate the molecules likely to fail in stage of drug discovery.

The incidence of opportunistic fungal infections has increased dramatically with increasing number of immune suppressed patients. Moreover, fungal pathogens ea develop resistance to commonly used antifungal agents. The challenge of treatment and prevention of invasive fungal infections is underscored by their high incidents.

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