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Patent Search

Invention Title	TOWARDS DRUG REPOSITIONING OF METHAZATHIOPRINE A NEW AZATHIOPRINE DERIVATIVE: EXPLORING THE POTENTIAL OF ANTI-TM REDUCTASE EFFECT
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Abstract:

Drug repositioning and repurposing is a groundbreaking approach in the field of pharmaceutical research, offering a cost-effective and time-efficient strategy for disc therapeutic uses for existing drugs to minimize risk and identifies new indications for known drugs. Azathioprine is an immunosuppressive drug, as is its subtype Methazathioprine. It is used to treat a number of autoimmune diseases. Azathioprine has the ability to momentarily reduce blood white blood cell counts, which rais infection. Additionally, it may reduce the quantity of platelets, which are essential for healthy blood coagulation. To overcome the Azathioprine adverse effects, theref PubChem compound databases, the chemical structure of methazathioprine, which is an addition of a methyl group to the amino position of the azathioprine, was o the current investigation. Additionally, the present study performed the use of Pharmamapper and Autodock to conduct specific in-silico molecular modelling followe studies were carried out. The results showed that these compounds function to block certain gut bacterial metabolites, such as the TMAO/DMSO-Reductase family of Thus, Repositioning Methazathioprine: From Immunosuppression to Anti-TMAO reductase is the main topic of this work.

Complete Specification

Description:FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

&

THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

1. TITLE OF THE INVENTION:

Towards Drug Repositioning of Methazathioprine a New Azathioprine Derivative: Exploring the Potential of Anti-TMAO reductase Effect

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