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DEPARTMENT OF
SCIENCE & TECHNOLOGY
सत्यमेव जयते

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TECHNOLOGY
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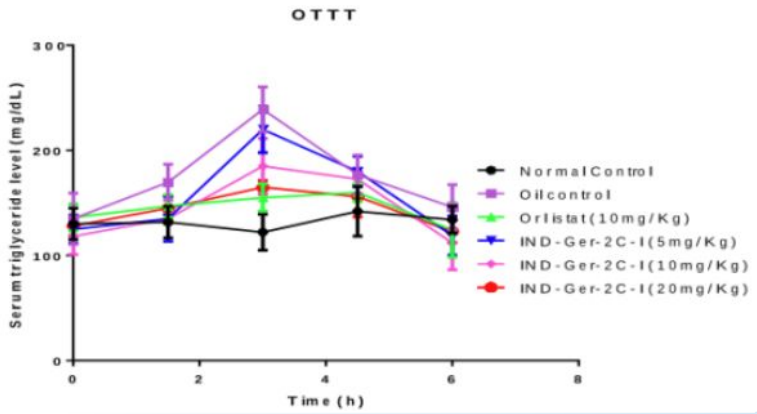
PENDING

(IN202312082669) Method of preparing thiazolidinedione-indole compounds



NEED

The technology introduces a method for preparing thiazolidinedione-indole compounds, with applications in pharmaceutical synthesis, offering a novel approach to generate complex compounds with diverse chemical functionalities.

MARKET ANALYSIS

The pharmaceutical industry is projected to grow at a CAGR of 5.8% globally, driven by increasing demand for novel drug compounds. The Indian pharmaceutical market is expected to reach $130B by 2030, with a significant push towards specialized drug synthesis.

TECHNOLOGY OVERVIEW

The invention describes a method to synthesize thiazolidinedione-indole derivatives, utilizing alkyl halides, aromatic amines, and indoles. This method enables the formation of biologically relevant compounds with precise substitutions, suitable for pharmaceutical applications.

Target Industries

1) Pharmaceutical manufacturers and R&D companies focusing on new drug formulations, 2) Chemical synthesis and API (Active Pharmaceutical Ingredient) suppliers, 3) Biotechnology firms researching novel therapeutic compounds.

TECHNOLOGY KEY FEATURES

A synthetic method for thiazolidinedione-indole compounds with diverse substitution patterns. It combines alkyl/aryl halides with thiazolidine-2,4-dione and indole derivatives for complex, biologically active molecules.

AT A GLANCE

- SDG 3 (Good Health and Well-being), SDG 9 (Industry, Innovation, and Infrastructure), SDG 12 (Responsible Consumption and Production)

Read more here

Technology is available for licensing/ co-development.

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