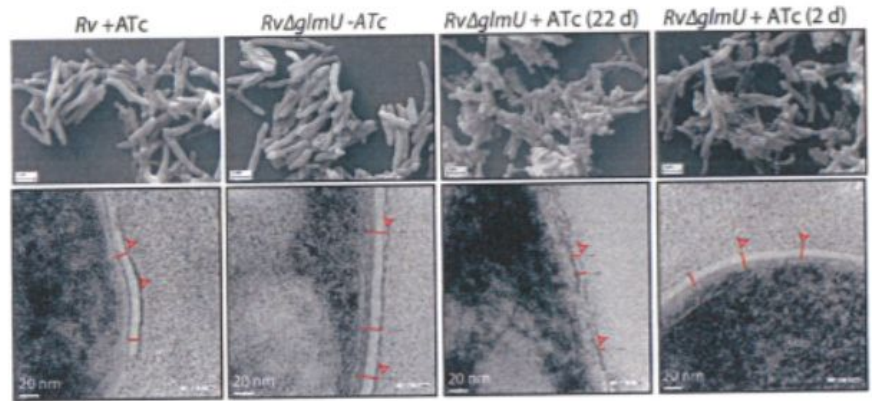




GRANTED

(IN413180)

Novel oxazolidine compound and method of its preparation



NEED

Tuberculosis (TB) remains one of the deadliest infectious diseases globally, with treatment resistance and insufficient drug targets. A novel approach targeting GlmUMtb, a key enzyme in Mycobacterium tuberculosis, could change TB treatment.

TECHNOLOGY OVERVIEW

This patent introduces an oxazolidine compound that inhibits GlmUMtb, a critical enzyme in Mycobacterium tuberculosis. By disrupting the synthesis of key metabolites essential for bacterial survival, it offers a promising new treatment for tuberculosis, targeting both in vivo and in vitro infections.

TECHNOLOGY KEY FEATURES

Oxazolidine compound; inhibits GlmUMtb enzyme; disrupts key metabolic intermediates; high binding affinity; potential treatment for tuberculosis; novel drug target for TB.

[Read more here](#)

MARKET ANALYSIS

The global tuberculosis market is projected to grow at a CAGR of 5.8% from 2023 to 2033, driven by increasing TB incidence and the demand for effective, novel treatments. (Source: Market Research Future, 2023)

Target Industries

1) Pharmaceutical companies developing TB treatments; 2) Research institutions focused on drug discovery; 3) Biotechnology firms working on novel antibiotic development; 4) Healthcare providers focused on infectious diseases.

AT A GLANCE

- SDG 3 (Good Health and Well-being), SDG 9 (Industry, Innovation, and Infrastructure), SDG 10 (Reduced Inequality)

Technology is available for licensing/ co-development.

Reach out to Prof. Deepak Chitkara, Coordinator, BITS Technology Enabling Centre,

BITS Pilani Contact Details: tec.bits@pilani.bits-pilani.ac.in, 91 1596-255913

