



BCIL **Biotech Consortium India Limited**

Novel compounds as anti-tubercular agents

TECHNOLOGY AVAILABLE FOR TRANSFER

This technology is about a novel compound i.e G protein-coupled receptor 109A inhibitor, useful for treatment of infection, preferably tuberculosis caused by resistant and non-resistant Mycobacterium tuberculosis.

TECHNOLOGY

G-protein coupled receptors such as GPR109A plays an important role in tuberculosis. GPR109A receptor is located on the cell surface and inhibits adenylyl cyclase along with consequent suppression of PKA-signaling resulting in reduced triglyceride turnover which is further responsible for accumulation of lipid body inside the cell. Lipid body's increased concentration inside the cell favours the growth of M. tuberculosis and prevents respiratory burst. A GPR109A inhibitor halts the formation of lipid body by creating a hostile environment for the tuberculosis and thus induces respiratory burst.

APPLICATIONS

- The novel molecule of this technology can be used as an Antitubercular drug for treating Mycobacterium tuberculosis infections (MDR, XDR, TDR, etc)

UNIQUE SELLING PROPOSITION

- A novel Antitubercular agent. G protein-coupled receptor 109A inhibitor.
- Useful for treating resistant and non-resistant Mycobacterium tuberculosis infections.
- Can be used as prophylactic in preventing the occurrence of tuberculosis.

STAGE OF TECHNOLOGY

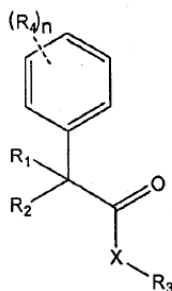
- **(TRLs 3)**- The technology has been developed and validated at laboratory scale.

INTELLECTUAL PROPERTY

- Patent granted in China, Japan, USA, Austria, Switzerland, Germany and UK.

LICENSING OPPORTUNITY

TTO@BCIL is looking for a suitable industrial partner for the development and commercialization of this novel anti-tubercular drug.



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