

Nasoprotect – A Vaccine Alternative Approach

- **TECHNOLOGY:** A novel approach for prevention of respiratory infections like common flu and COVID-19 is the need of hour. The proposed technology is an immunomodulatory protein-based immune-boosting mechanism with broad spectrum activity against all pathogens including viruses like Influenza and potentially COVID-19. It activates the innate immune system in the nasal mucosa, the initial entry point for respiratory pathogens, in a targeted manner through TLR2/4 pathways.
- **DOMAIN:** Immunology and Healthcare
- **ADVANTAGES:** This immune-boosting mechanism is agnostic to specific pathogens including viruses, bacteria or fungi. A single intranasal dose reduces mortality, viral titers and clinical symptoms in in- vivo influenza mice models. No general toxicity has been observed in preliminary in-vitro and in-vivo studies. A method has been optimized for scalable production of recombinant protein in bacterial expression system.
- **IP STATUS:** PCT/IB2022/051960 filed on March 5, 2022.

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