TITLE: A Novel Formulation of Klotho cDNA or Recombinant Protein for Inhalation Delivery in the Prevention and Treatment of Lung Injury and the Promotion of Lung Growth and Repair

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TECHNOLOGY: Biologicals

UTSD: 2949

SUMMARY: Acute and chronic lung diseases are common clinical problems. Klotho is a circulating protein that exerts multiple effects including cellular maintenance, anti-oxidation, cytoprotection, anti-fibrosis, and promotion of tissue repair and regeneration. The lung has been shown to be particularly dependent on Klotho for maintenance of organ health. This invention, a novel polymeric nanoparticle formulation of Klotho cDNA or recombinant protein for aerosolization and inhalation delivery to the lung, targets several aspects of treating lung disease.

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