

Phase 1 Clinical Development to Evaluate the Safety and Efficacy of IPS101A Gene Therapy Product for Severe Parkinson's Disease

PAEAN Biotechnology
PAEAN
 BIOTECHNOLOGY

NEUROLOGY	Preclinical
Product Type	Other-Bio.
Indication	Parkinson's Disease
Target	Mitochondrial defects
MoA(Mechanism of Action)	Restoration of mitochondrial dysfunction via transplantation of exogenous healthy mitochondria
Competitiveness	Clinical Perspective: PAEAN has successfully completed Phase 1/2a clinical trials for Polymyositis and Dermatomyositis (PM/DM), validating its therapeutic platform. Key findings include. • Efficacy: A single dose delivered therapeutic effects lasting over 12 weeks. Inflammation (Cytokines): Reduced by 60%. Muscle Enzyme (CK Levels): Reduced by 45%. Muscle Strength (MMT-8): Improved by 30%. • Safety: Zero Serious Adverse Events (SAEs) reported. Clinically validated the "Hit-and-Run" mechanism: the drug is cleared quickly (short PK), but the restorative effect persists long-term (long PD). Competitor Perspective: From competitive perspective, PAEAN distinguishes itself from competitors through "Superior Source Cells" and "Clinically Proven Safety." 1. Age 0(Zero) Mitochondria (Source Advantage): Unlike competitors using adult-derived cells or cell lines, PAEAN utilizes Umbilical Cord MSCs to harvest "Age 0" mitochondria, which are the youngest and most active. 2. High Purity & Proprietary Process: A patented isolation process minimizes impurities (DAMPs) to ensure low immunogenicity (Hypoimmunogenic) and yields high-purity, intact mitochondria. 3. Scalable Manufacturing: Utilizes an Allogeneic (off-the-shelf) approach with a Master Cell Bank (MCB), enabling consistent mass production and frozen storage, unlike autologous methods.
Development Stage	Preclinical
Route of Administration	IV injection

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