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EXO Lyophilized Essence Serum

Product Number: EXO03

Shipping and Storage

- 1. Unresolved freeze-dried powder: stored in the dark at 2-8 °C, with a shelf life of 1 year.
- 2. Liquid after reconstitution: stored at 2-8 °C, recommended for use within 24 hours; Avoid repeated freezing and thawing.

Description

Exosomes are double layered membrane vesicles with a diameter of 30-150 nm, carrying bioactive substances such as proteins, mRNA, miRNA, and lipids. The extracellular vesicles of human umbilical cord mesenchymal stem cells function through the following mechanisms:

- 1. Promote cell proliferation and migration: activate the fibroblast proliferation signaling pathway, accelerate wound re epithelialization;
- 2. Stimulating collagen synthesis and angiogenesis: Upregulating collagen deposition and promoting CD31+endothelial cell formation;
- Immune regulatory function: Inhibit pro-inflammatory Th1/Th17 cell activity and alleviate tissue inflammatory response.
 Main ingredients: Highly active human umbilical cord mesenchymal stem cells (hUMSC) derived extracellular vesicles
 Appearance: Milky white or white loose freeze-dried powder, slightly milky liquid after reconstitution.
 Specification: Research Kit: 3ml (including exosome particles ≥ 10 billion)

Application

This preparation is suitable for research or clinical application in the following fields:

- 1. Research on tissue repair therapy
 - 1.1. Difficult to heal wound repair;
 - 1.2. Oral mucosal ulcers caused by radiotherapy and chemotherapy;

2. Research on Medical Aesthetics Applications

- 2.1. Skin regeneration and repair, anti-aging, improving skin quality and complexion;
- 2.2. Scar formation and promotion of hair follicle repair.

Protocol

1. Resolution:

- 1.1. Add 1ml sterile deionized water (ddH2O) or injection water to the freeze-dried powder bottle;
- 1.2. Let it stand for 5 minutes, gently shake until completely dissolved (minimum reconstitution volume of 200 µ L).

2. Administration route (for research purposes):

- 2.1. Localized application: used for skin wounds or cosmetic research;
- 2.2. Mucosa spray: treatment of oral ulcer;
- 2.3. Subcutaneous/wound margin injection: research on difficult to heal wounds, etc;

Note

- 1. Taboo: Prohibited for individuals allergic to bioactive proteins;
- 2. Safety: Free from preservatives, hormones, and antibiotics;
- 3. Operating requirements: Dissolving and packaging must be carried out in a sterile environment;
- 4. Stability: If flocculation or precipitation is found after reconstitution, the use should be stopped;

For Research Use Only