



PNExo™ Exosome-Punica granatum

Catalog: PNE-HPG63

PNExo™ Exosome Series (Exosomes isolated from Herbages) are nanosized (30-150 nm) membrane vesicles extracted from a diverse range of herbaceous plants, rich in bioactive molecules and proteins. These naturally derived nanoparticles contain a variety of bioactive molecules and proteins, which have been proven to offer numerous benefits in skincare, drug delivery, and biomedicine. Herbage exosomes, with their antioxidant, anti-inflammatory, and anti-aging properties, have become an attractive option for the development of innovative therapies. PNExo™ is dedicated to the production and delivery of high-quality herbage-derived exosome products. Our products undergo a rigorous screening and purification process to ensure their high purity and activity. We can provide both lyophilized powder and frozen liquid according to customer requirements. Lyophilized powder is beneficial for long-term storage at 4°C, while frozen liquid should be maintained at temperatures between -20°C and -80°C. Ultracentrifugation, PEG precipitation, and Tangential Flow Filtration (TFF) technology are utilized for the isolation and production of exosomes, ensuring the highest quality and purity. Creative Biostructure PNExo™ exosome products guarantee higher purity and quality, and we can provide exosome GMP production and CDMO services to meet our customers' research and production needs.

PRODUCT INFORMATION

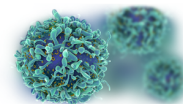
Product Name	PNExo™ Exosome-Punica granatum
Catalog Number	PNE-HPG63
Source	Punica granatum



Product Overview	PNExo™ Exosome Series (Exosomes isolated from Herbages) are nanosized (30-150 nm) membrane vesicles extracted from a diverse range of herbaceous plants, rich in bioactive molecules and proteins. These naturally derived nanoparticles contain a variety of bioactive molecules and proteins, which have been proven to offer numerous benefits in skincare, drug delivery, and biomedicine. Herbage exosomes, with their antioxidant, anti-inflammatory, and anti-aging properties, have become an attractive option for the development of innovative therapies. PNExo™ is dedicated to the production and delivery of high-quality herbage-derived exosome products. Our products undergo a rigorous screening and purification process to ensure their high purity and activity. We can provide both lyophilized powder and frozen liquid according to customer requirements. Lyophilized powder is beneficial for long-term storage at 4°C, while frozen liquid should be maintained at temperatures between -20°C and -80°C. Ultracentrifugation, PEG precipitation, and Tangential Flow Filtration (TFF) technology are utilized for the isolation and production of exosomes, ensuring the highest quality and purity. Creative Biostructure PNExo™ exosome products guarantee higher purity and quality, and we can provide exosome GMP production and CDMO services to meet our customers' research and production needs.
Form	Lyophilized powder / Frozen Liquid
Concentration	> 1x10 ⁶ particles
Storage	Lyophilized powder store at 4 °C. Frozen liquid store at -20°C to -80°C. Recommended to avoid repeated freeze-and-thaw cycles.
Reconstitution	Reconstitute lyophilized exosome by adding deionized water for a desired final concentration. Centrifuge before opening to ensure exosomes are at bottom, resuspend exosomes by pipetting and/or vortex, please avoid bubbles. Centrifuge again and mix well for using.
Efficacy	Antioxidant, Anti-inflammatory, Immunomodulatory

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
-------------------------	---



Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to ?3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.