

Purified Exosomes ($\geq 1 \times 10^9$) from Human Adipose-Derived Mesenchymal Stem

Cells- 50 μ g

Product # 76550

Component	Quantity
Purified Exosomes – Human Adipose - Derived Mesenchymal Stem cells	1 vial (50 μ g)
Product Insert	1

Product Description:

Origin	Human Adipose-Derived Mesenchymal Stem cells
Quantity Per Vial	50 μ g ($\geq 1.00E+9$)
Storage of exosomes	-80°C
QC	Exosomes are analyzed for size and concentration using nano particle tracking analysis using Particle Metrix ZetaView® Evolution.

Notes prior to use:

- Make sure exosomes are stored at -80°C.
- Avoid freeze thaw cycles of the purified exosomes; if needed aliquot the exosomes and store.
- Thaw on ice
- Mix gently by pipetting up and down.

Intended use

Purified exosomes derived from mesenchymal stem cells (MSC) are intended for research use only as a reference material and positive control in exosome-related studies. These exosomes may be used for assay calibration, spike-in controls for exosome quantification, protein marker characterization, and exosomal nucleic acid extraction and analysis. They are also suitable as standardized positive controls for immunocapture performance evaluation and for use in analytical techniques including flow cytometry, electron microscopy, ELISA, and Western blotting.

Product Overview

Exosomes are nanosized, endosome-derived lipid vesicles (30–160 nm in diameter) actively secreted by most cell types through exocytosis. They contain specific biological cargo, including RNAs, lipids, and proteins. The composition and abundance of these cargos depend on the originating cell type, making exosomes valuable tools for biomarker discovery and functional studies. MSC-derived exosomes have attracted significant interest in regenerative and translational research due to the intrinsic properties of MSC, including low immunogenicity, high biocompatibility, differentiation potential, and immunomodulatory activity. These exosomes transfer functional molecules—such as miRNA, mRNA, proteins, peptides, cytokines, and lipids—to recipient cells, contributing to intercellular communication and supporting tissue repair processes.

Storage Conditions and Product Stability

Exosomes should be stored at -80°C at all times. Exosomes are stable for 6 Months from the date of manufacturing.

Technical Support

Contact our Technical Support Team between the hours of 9:00 and 5:30 (Eastern Standard Time) at (905) 227-8848 or Toll Free at 1-866-667-4362. Technical support can also be obtained from our website (www.norgenbiotek.com) or through email at techsupport@norgenbiotek.com

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