

## **HQExo**<sup>TM</sup> **Exosome-MSC**

Catalog: Exo-SC04

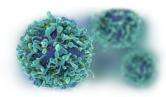
## PRODUCT INFORMATION

HQExo™ Exosome-MSC
Exo-SC04
Exosome derived from Xeno-Free Human Mesenchymal Stem/Stromal Cells and Media
Exosomes are small endosome derived lipid nanoparticles (30-160 nm in diameter) secreted by exocytosis by
most living cells and contain specifical cargos, such as RNAs, lipids, and proteins. The cargos amount and con
position of exosomes depend on the cell type from which they are released, which making them useful for bio
marker discovery and functional characterization. Exosomes have been isolated from mesenchymal stem cells
(MSCs), which have captured great attention in regenerative and translational medicine over a few decades due
to their low immunogenicity, high biocompatibility, differentiation capacity, potent immunomodulatory proper
ties, and their ability to be favorably cultured and manipulated. Exosomes transfer functional cargos like miRN
A and mRNA molecules, peptides, proteins, cytokines and lipids from MSCs to the recipient cells, which contri
ibutes to the healing of necrotic tissues and organs or apoptotic cells HQExo™ exosomes derived from MSCs
could use as positive controls for exosome isolation and functional research, such as ELISA, FACS, WB. With
the unique capacity of proliferation and differentiation, exosomes derived from MSCs represented a great opportunity
rtunity for regenerative therapeutic agents. For example, it has been reported that exosomes from cardiomyocy
es or stem/progenitor cells can promote cardiac repair and regeneration. Lyophilization is useful for a long-ter
m storage at 4°C, and frozen liquid should be kept at -20°C to -80°C. Ultracentrifugation and precipitation tech
niques are mainly used in exosome Isolation. It had been reported that both methods yielded extracellular vesic
les in the size range of exosomes and included apoproteins, which can be used in downstream analyses. Nanop
articles Tracking Analysis (NTA) is used for measuring exosome particles concentration, and WB or ELISA ca
n be used in exosomal biomarkers analysis. Creative Biostructure standard exosome products guarantee higher
purity and quality to meet our customer research.
Lyophilized powder/ frozen liquid
>5x10^9 particles

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## Reconstitution

Reconstitute lyophilized exosome by adding deionized water for a desired final concentration. Centrifuge befor e opening to ensure exosomes are at bottom, resuspend exosomes by pipetting and/or vortex, please avoid bub bles. Centrifuge again and mix well for using.