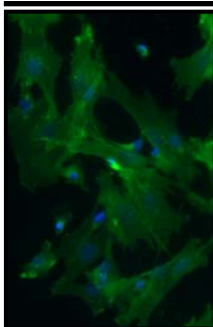


MESENCHYMAL STEM CELL SYSTEM

RAT MESENCHYMAL STEM CELLS – BONE MARROW



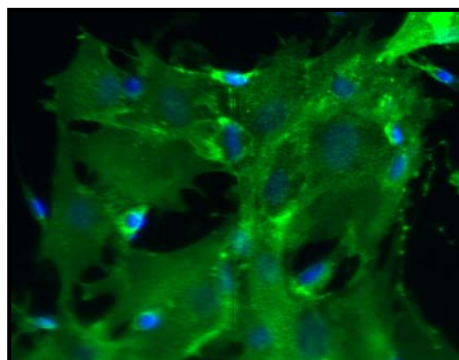
Product Type:	Cryo-preserved Mesenchymal Stem Cells
Catalog Number:	P10536
Source:	Rat Bone Marrow
Number of Cells:	5 x 10 ⁵ Cells / vial (1ml)
Storage:	Liquid Nitrogen

Rat mesenchymal stem cells provided by Innoprot are isolated from bone marrow aspirates from femur of male Sprague-Dawley rats. The cells are cultured during 5 days prior to cryopreservation. RMSC-bm are guaranteed to further expand for 15 population doublings at the conditions recommended in the instructions provided by Innoprot.

Mesenchymal stem cells (MSC) are well-characterized population of adult stem cells. They have the potential to develop into mature cells that produce fat, cartilage, bone, tendons, and muscle. These properties in combination with their developmental plasticity have generated tremendous interest in the potential use of mesenchymal stem cells to replace damaged tissues. MSC cultured without serum in the presence of transformation growth factor will differentiate into chondrocytes, whereas MSC cultured in serum with ascorbic acid and dexamethasone will differentiate into osteoblasts. MSC has the capability for renewal and differentiation into various lineages of mesenchymal tissues.

Recommended Medium

- Mesenchymal Stem Cell Medium (Reference: P60115)



Product Characterization

Immunofluorescent method

- CD90
- CD105

The cells test negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi

Product Use

THESE PRODUCTS ARE FOR RESEARCH USE ONLY. Not approved for human or veterinary use, for application to humans or animals, or for use in vitro diagnostic or clinical procedures