

Product Description

Fibroblasts are mesenchymal cells derived from the embryonic mesoderm. They have been extensively used for a wide range of cellular and molecular studies as they are one of easiest types of cells to grow in culture. Their durability also makes them amenable to a variety of manipulations ranging from studies employing gene transfection to microinjection. There is evidence showing that fibroblasts in various organs are intrinsically different [1]. Fibroblasts within tissues are exposed to a dynamic mechanical environment, which influences the structural integrity of both healthy and healing soft tissue. Fibroblasts secrete a non-rigid extracellular matrix which is rich in type I and/or type III collagen [2]. Cultured prostate fibroblasts synthesize FGF-like growth factors to stimulate their growth which may be a factor in the development of benign prostatic hyperplasia (BPH) [3].

iXCells Biotechnologies provides high quality Human Prostate Fibroblasts (HPrF), which are isolated from human prostate tissue and cryopreserved at P0, with >0.5 million cells in each vial. HPrF express fibronectin and are characterized by their spindle-shaped morphology. They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 16 population doublings in Fibroblast Growth Medium (Cat# MD-0011) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Human prostate tissue
Package Size	0.5 million cells/vial
Passage Number	P0
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Fibroblast Growth Medium (Cat# MD-0011)

References

- [1] Conrad, G. W., Hart, G. W., Chen, Y. (1977) Differences in vitro between fibroblast-like cells from cornea, heart, and skin of embryonic chicks. *J. Cell Sci.* 26:119-137.
- [2] Gabbiani, G., Rungger-Brandle, E., The fibroblast. In *Tissue Repair and Regeneration* (L. E. Glynn, ed.), pp 1-50. *Handbook of Inflammation*, Vol. 3. Amsterdam, Elsevier, 1981.
- [3] Michael T. Story, Bonnie Livingston, Laurie Baeten, Susan J. Swartz, Stephen C. Jacobs, Frank P. Begun, Russell K. Lawson (2006) Cultured human prostate-derived fibroblasts produce a factor that stimulates their growth with properties indistinguishable from basic fibroblast growth factor. *The Prostate* 15(4) 355-365.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com