Product Description

Human Pericardial Fibroblasts (HPcF) are the major cell type of the pericardium. They produce collagens and help form the thin but strong pericardium to serve as a protective sac for the heart by providing structural support and lubrication, and preventing excessive dilation of the heart [1, 2]. Dysregulated activation and proliferation of HPcF, collagen and fibrin deposition, chronic inflammation, and scarring have been implicated in constrictive pericarditis, where pericardium hardening eventually prevents the heart from expanding [3, 4]. Associations between fibroblast activation and immunomodulation make HPcF cultures a useful tool for studying progressive sclerosing pericarditis.

iXCells Biotechnologies provides high quality HPcF, which are isolated from human heart and cryopreserved at P0, with >0.5 million cells in each vial. HPcF express fibronectin and are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi. They 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 heart
Package Size	0.5 million cells/vial
Passage Number	P1
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Fibroblast Growth Medium (Cat# MD-0011)

References

[1] 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.
[2] 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.

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