Product Description

The adrenal gland plays an essential role in regulating homeostasis in the body through the secretion of corticosteroid and androgen hormones. Fibroblasts are mesenchymal cells derived from the embryonic mesoderm. They have been extensively used for a wide range of cellular and molecular studies. This is mainly because they are one of easiest types of cells to grow in culture, and their durability makes them amenable to a wide variety of manipulations ranging from studies employing gene transfection to microinjection [1]. Fibroblasts secrete a non-rigid extracellular matrix that is rich in type I and/or type III collagen [2]. They are responsible for much of the synthesis of extracellular matrix in connective tissues and play major roles in wound healing. Many diseases are associated with fibroblasts, either because fibroblasts are implicated in their etiology or because of the fibrosis that accompanies damage to other cell types in tissues. For example, the development of bowl stenosis in Crohn's disease patients is caused by extreme fibroblast proliferation and extracellular matrix expansion [3].

iXCells Biotechnologies provides high quality Human Adrenal Fibroblasts (HAdF), which are isolated from human adrenal tissue and cryopreserved at P1, with >0.5 million cells in each vial. HAdF express fibronectin and are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi. They can further expand for 12 population doublings in Fibroblast Growth Medium (Cat# MD-0011) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Human adrenal tissue
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] Conrad GW, Hart GW, Chen Y. (1977) Differences in vitro between fibroblast-like cells from cornea, heart, and skin of embryonic chicks. J. Cell Sci. 26: 119-37.
[2] Gabbiani G, Rungger-Brandle E. (1981) The fibroblast. In Glynn LE, Handbook of Inflammation, Vol. 3: In Tissue Repair and Regeneration (pp. 1-50) Amsterdam: Elsevier.
[3] Luna J, Masamunt, MC, Rickmann M, Mora R, Espana C, Delgado S, Llach, J, Vaquero E, Sans M. (2011) Rocotrienols have potent antifibrogenic effects in human intestinal fibroblasts. Inflamm Bowel Dis. 17: 732-41.

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