

Product Description

The adrenal gland plays an essential role in regulating homeostasis in the body through the secretion of corticosteroid and androgen hormones. The secreted steroids arise from the three zones of the adrenal gland: the zona glomerulosa, zona fasciculata, and zona reticularis. Microvascular endothelial cells (MEC) line the blood vessels and contribute to many biological processes such as hemostasis, coagulation, trafficking of lymphocytes, and the inflammatory response. MEC regulate the secretion of adrenal hormones in the adrenal gland [1]. Studies have shown that factors secreted from HAdMEC, such as endothelin-1, nitric oxide, adrenomedullin and proadrenomedullin NH₂-terminal 20 peptide affect aldosterone secretion [1]. HAdMEC, unlike brain and liver MECs, are highly resistant to glucocorticoid-induced cytotoxicity [2].

iXCells Biotechnologies provides high quality Human Adrenal Microvascular Endothelial Cells (HAdMEC), which are isolated from human adrenal tissue and cryopreserved at P1, with >0.5 million cells in each vial. These HAdMEC express vWF/Factor VIII and CD31 (PECAM). They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 12 population doublings in Endothelial Cell Growth Medium (Cat# MD-0010) 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	Endothelial Cell Growth Medium (Cat# MD-0010)

References

- [1] Hinson, J.P., Kapas, S. 1998. The role of endothelial cell product in the regulation of adrenocortical functions: actions of endothelin, nitric oxide, adrenomedullin and PAMP. *Horm Metab Res.* 30(6-7): 334-40
- [2] Gu, F., Zhang, WJ., Wu, LQ., Ye, LY., Li, HZ., Li, J., Xu, SQ., XU, YP., Lou, JN. 2006. Characteristics of human adrenal microvascular endothelial cells in morphology, phenotypes, and function. *Ahongqquo Yi Xue Ke Xue Yuan Xue Bao.* 28(4):502-6

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