Human Prostate Stromal Cells and Culture

Published date: Dec. 31, 2013

Technology description

Dr. David Rowley has developed several human stromal cell lines derived from human normal and diseased prostate glands. The cell lines produced to date are HTS-40C, HPS-40F, HPS-44D, HTS-2T and HPS-TZ1 (and its derivative lines), and they are all available for licensing. The cell lines have been passaged successfully in culture and have been used for experiments in the inventor┬┐s laboratory for in vitro and in vivo studies. The cell lines are unique in that some of them can promote tumor formation of LNCaP carcinoma cells in a nude mouse host system. Accordingly, the cell lines might be useful for screening biologically active molecules (native or otherwise) which affect prostate stromal cell biology as it relates to prostate carcinoma biology, and potentially the biology of any carcinoma cell line or tumor system in which they are tested. The cell lines might be useful in determining gene expression, which occurs in reactive stroma of carcinoma or tumor development. The cell lines contain an androgen receptor, as determined by immunohistochemistry, so they might be useful for determination of androgen-regulated gene expression in prostate stromal cells.

Advantages

- Prostate cancer is the cause of death in approximately 35,000 American men each year. In addition, 165,000 new cases of prostate cancer are discovered annually. Based on these figures, a tremendous market opportunity exists for new pharmaceutical treatments as well as gene therapy applications. - The HTS-40C, HPS-40F, HPS-44D, HTS-2T and HPS-TZ1 cell lines could be a helpful research tool for academic and commercial companies by enabling the screening of novel compounds and testing of new therapies for the treatment of prostate disorders.

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