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(54) Title: FAP-TARGETED RADIOPHARMACEUTICALS AND IMAGING AGENTS, AND USES RELATED THERETO

(57) Abstract: The tumor stroma, which accounts for a large part of the tumor mass, represents an attractive target for the delivery of diagnostic and therapeutic compounds. Here, the focus is notably on a subpopulation of stromal cells, known as cancer-associated fibroblasts, which are present in more than 90% of epithelial carcinomas, including pancreatic, colon, and breast cancer. Cancer-associated fibroblasts feature high expression of TAP, which is not detectable in adult normal tissue but is associated with a poor prognosis in cancer patients. The present invention provides small-molecule radiopharmaceutical and imaging agents based on a FAP-specific inhibitor.



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