

Medical Devices and Methods for Inhibiting Proliferation of Smooth Muscle Cells

Published date: Feb. 17, 2012

Technology description

Summary

A medical device coated with the HDAC inhibitors for use in inhibiting proliferation and/or migration of smooth muscle cells is described.

The medical device has a coating comprising an HDAC inhibitor containing a plurality of coatings, wherein each coating comprises a biodegradable carrier and one HDAC inhibitor that is eluted from the stent by staged release. A method for inhibiting proliferation and/or migration of non-neoplastic smooth muscle cells in a subject comprises administering to the subject an amount of an HDAC inhibitor effective to inhibit proliferation of smooth muscle cells in the subject.

The method provides a means of preventing or treating restenosis after angioplasty or stent implantation in a subject.

Institution

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