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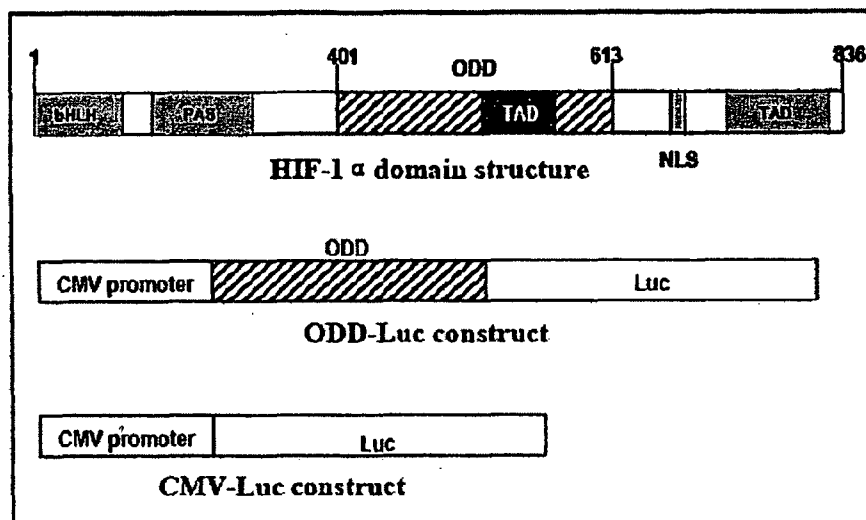
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(54) Title: INHIBITION OF HIF-1 ACTIVATION FOR ANTI-TUMOR AND ANTI-INFLAMMATORY RESPONSES



(57) Abstract: The presently disclosed subject matter generally relates to methods and compositions for inhibiting the expression and/or activation of hypoxia-inducible factor 1 (HIF-1) genes in a hypoxic cell. More particularly, the methods disclosed herein relate to inhibition of HIF-1 activation in a cell, increasing sensitivity of a tumor cell to radiation and/or chemotherapy, delaying tumor growth, inhibiting tumor blood vessel growth, inhibiting inflammatory responses in a cell through the use of compositions that prevent the nitrosylation of HIF-1, and methods for screening for new inhibitors of HIF-1 activation. Additionally, the compositions disclosed herein relate to compositions that can be employed in, and are identified by, the disclosed methods.

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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
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 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,946,484 B (ADAMS et al) 20 September 2005 (20.09.2005), claims	1-55
X	US 2003/0215528 A (GRAHAM et al) 20 November 2003 (20.11.2003), claims	1-55

Further documents are listed in the continuation of Box C. See patent family annex.

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