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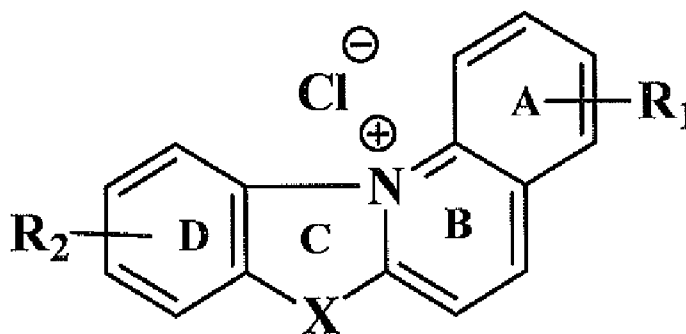


Figure 1

(57) Abstract: A synthesis procedure for benzazolo[3,2-a]quinolinium chloride salts and the inclusion of amino-substituent and nitro-substituent resulting in four compounds such as NBQ-38(7-Ethyl-3-nitrobenzimidazo[3,2-a]quinolinium Chloride), NBQ-95(2-Chloro-10-methyl-3-nitrobenzothiazolo[3,2-a] quinolinium chloride), ABQ-38 (3-amino-7-ethylbenzimidazo[3,2-a]quinolinium chloride), and ABQ-95(3-amino-2-chloro-10-methylbenzothiazolo[3,2-a]quinolinium chloride) wherein said procedures provides an increment in the compounds biological activity. The compounds are further used for intra cellular binding, cytotoxicity on malignant cells through apoptosis activation mediated by mitochondrial damage and caspases 3 and 7 activation, cellular organelles binding and damage, and a marker due to the auto-fluorescent properties.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 546/62, 70

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT


Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	Zayas, B. et al.: Comparison of the nucleic acid covalent binding capacity of two nitro-substituted benzazolo[3,2-a]quinolinium salts upon enzymatic reduction. Toxicology in Vitro, vol. 21, pages 1155-1164, 2007.	1-2 ----- 3-21
Y	US 4,590,275 A (COX et al.) 20 May 1986 (20.05.1986), see entire document.	3-21

Further documents are listed in the continuation of Box C.

See patent family annex.

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