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Antiviral and quantitative structure activity relationship study for dihydropyridones derived from curcumin.

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Journal article : American Journal of Immunology (/cabdirect/search/?

q=do%3a%22American+Journal+of+Immunology%22) 2010 Vol.6 No.2 pp.25-28 ref.17

Abstract : Problem statement: Pyridones are known to have variety of biological activities like antitumor, antibacterial, anti-inflammatory and antimalarial activities. This study presents antiviral evaluation of dihydropyridones derived from curcumin, as well as curcumin for comparison. Approach: The compounds evaluated for their in vitro antiviral activities against the viruses: HIV-1, Bovine viral Diarrhea, Yellow Fever, Reovirus 1, Herpesvirus 1, Vaccinia, Vesicular Stomatitis, Coxsackie virus B2, Poliovirus 1 and Respiratory Syncytial viruses by using Microculture Tetrazolium assay (MTT) method. The method was based on the metabolic reduction of 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide. Results: Antiviral biological activities represented as CC₅₀ were within the range >100-26 for BHK-21, while they were within the range >90-≥13 against Respiratory Syncytial Virus when represented as EC₅₀ for example. Both CC₅₀ and EC₅₀ values were found to increase with increasing chain length of the substituent on the nitrogen atom. Conclusion: The in vitro antiviral activities of the tested dihydropyridones can be enhanced by increasing chain length of the substituent on the nitrogen atom.

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Descriptor(s) : antiviral properties, arboviruses, curcumin, human diseases, human immunodeficiency viruses, mucosal disease, structure activity relationships, Vesicular stomatitis viruses

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Broader term(s) : Rhabdoviridae, Mononegavirales, negative-sense ssRNA viruses, ssRNA viruses, RNA viruses, viruses, Enterovirus, Picornaviridae, Picornavirales, positive-sense ssRNA Viruses, Simplexvirus, Alphaherpesvirinae, Herpesviridae, Herpesvirales, dsDNA Viruses, DNA Viruses, Lentivirus, Orthoretrovirinae, Retroviridae, RNA Reverse Transcribing Viruses, Human enterovirus C, Pneumovirus, Pneumovirinae, Paramyxoviridae, Flaviviridae, Reoviridae, dsRNA Viruses, Orthopoxvirus, Chordopoxvirinae, Poxviridae, Flavivirus, Pestivirus

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