

carbohydrates

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Synthesis and Antiinfluenza Virus Activity of 7-O-Alkylated Derivatives Related to Zanamivir.

— A series of 7-alkyl ethers related to zanamivir, cf. compounds (VI) and (IX), are prepared and their activity against influenza A virus sialidase is investigated. Derivatives bearing alkyl ether chains with less than 12 carbons, e.g. (VIa), exhibit similar inhibitory activity to zanamivir whereas derivatives with more than 12 carbons in the ether side chain, e.g. (VIb), are less active. Loss of activity is observed for compounds which lack the 8,9- diol moiety, cf. (IX) (some yields not given). — (HONDA, TAKESHI; MASUDA, TAKESHI; YOSHIDA, SHUKU; ARAI, MASAMI; KANEKO, SATORU; YAMASHITA, MAKOTO; Bioorg. Med. Chem. Lett. 12 (2002) 15, 1925-1928; Med. Chem. Res. Lab., Sankyo Co., Ltd., Shinagawa, Tokyo 140, Japan; EN)

