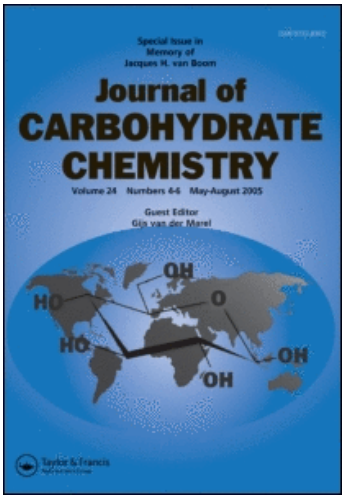

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SYNTHETIC STUDIES ON SIALOGLYCOCONJUGATES 7: SYNTHESIS OF N-ACETYLNEURAMINIC ACID DERIVATIVES AND ANALOGS

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ABSTRACT

Various types of the O-protected derivatives and the 9-bromo analogs of methyl [2-(trimethylsilyl)ethyl 5-acetamido-3,5-dideoxy-D-glycero-α-D-galacto-2-nonulopyranosid]onate were synthesized from methyl [2-(trimethylsilyl)ethyl 5-acetamido-4,7-di-O-acetyl-3,5-dideoxy-D-glycero-α-D-galacto-2-nonulopyranosid]onate (1) or methyl [2-(trimethylsilyl)ethyl 5-acetamido-8,9-di-O-isopropylidene-D-glycero-α-D-galacto-2-nonulopyranosid]onate (3).

INTRODUCTION

Recently, many kinds of biological functions[1-3] of sialoglycoconjugates such as gangliosides and glycoproteins have been revealed. In order to elucidate the structure-function relationship of gangliosides, synthesis of a variety of gangliosides and their various types of analogs are necessary. Naturally occuring sialo-compounds contain sialic acids in an α-glycosidic linkage[4] at the C-3 or C-6 position of galactose moiety, at C-6 of the glucose, N-acetylglucosamine or N-acetylgalactosamine moiety, and at the C-8 or C-9 position of the sialic acid skeleton.