

Title (en)  
SOLUTION AND SOLID PHASE SULFOXIDE GLYCOSYLATION: SYNTHESIS OF BETA-LINKED OLIGOSACCHARIDES USING 2-DEOXY-2-N-TRIFLUOROACETAMIDO-GLYCOPYRANOSYL DONORS

Title (de)  
LÖSUNG UND FESTPHASENSULFOXIDGLYKOSYLIERUNG: SYNTHESE VON BETA-VERKNÜPFTEN 2-DEOXY-2-N-TRIFLUOROACETAMIDO-GLYCOPYRANOSYL DONOREN

Title (fr)  
GLYCOSYLATION DE SULFOXYDE EN SOLUTION ET EN PHASE SOLIDE: SYNTHESE D'OLIGOSACCHARIDES A LIAISON BETA A L'AIDE DE DONNEURS 2-DEOXY-2-N-TRIFLUOROACETAMIDO-GLYCOPYRANOSYLE

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Abstract (en)  
[origin: WO9939201A1] The invention relates to a process for the synthesis of beta -oligosaccharides. beta -oligosaccharides are synthesized using alkylsulfenyl- or an arylsulfenyl-2-deoxy-2-N-trifluoroacetamidoglycopyranoses as glycosyl donors via the sulfoxide glycosylation, both in solution and solid phases. Once activated under the glycosylation conditions, these donors afford the respective beta -glycosides exclusively and in high yield. Since the trifluoroacetamido group is easily removed under mild conditions, the corresponding amino group can be appropriately derivatized, even in the presence of unprotected hydroxyl groups. Disaccharide libraries are designed, constructed and analyzed. The invention also relates to a process for synthesizing the glycosyl donor.

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