

Title (en)
PROCESS FOR PRODUCING 2'-O-FUCOSYLLACTOSE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON 2'-O-FUCOSYLLACTOSE

Title (fr)
PROCÉDÉ DE PRODUCTION DE 2'-O-FUCOSYLLACTOSE

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Application
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Abstract (en)
[origin: WO2017134176A1] The present invention relates to a process for producing 2'-O-fucosyllactose, to the intermediates obtainable by this process and to the use of these intermediates. Production comprises the reaction of a protected fucose of general formula (I) with a tri-(C1-C6-alkyl)silyl iodide to form a protected 1-iodofucose followed by reaction of the protected 1-iodofucose with a compound of general formula (I I), in the presence of at least one base and deprotection of the obtained coupling product to obtain 2'-O-fucosyllactose. The variables are defined as follows: Ra and Rb are identical or different and represent -C(=O)-C1-C6-alkyl or -C(=O)-phenyl, wherein phenyl is unsubstituted or optionally comprises 1 to 5 substituents or Ra and Rb together represent a -C(=O)- radical or a substituted methylene radical -C(RdRe)-, Rc represents an RSi radical or benzyl, wherein benzyl is unsubstituted or optionally bears 1, 2 or 3 substituents, RSi represents a radical of formula SiRfRgRh, wherein Rf, Rg and Rh are identical or different and represent, for example C1-C8-alkyl, R1 represents a -C(=O)-R11 radical or a SiR12R13R14 radical, R2 are identical or different and represent for example C1-C8-alkyl, R3 are identical or different and represent for example C1-C8-alkyl or both radicals R3 together represent linear C1-C4-alkenyl which is unsubstituted or bears 1 to 6 methyl groups as substituents.

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