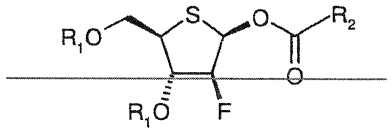
(10) the product I is isolated by crystallization from ethanol.

~~[Claims 21] A process for preparing a compound of the formula I~~



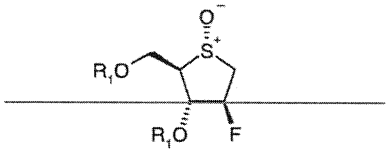
I

~~wherein~~

~~R_1 represents -C(O)-C_1-C_6-alkyl or -C(O)-aryl; and~~

~~R_2 represents C_1-C_6-alkyl, C_1-C_4-perfluoroalkyl or aryl,~~

~~which comprises reacting the sulphoxide of formula XIII:~~



XIII

~~wherein R_1 represents benzoyl, at a temperature between 30°C and 100°C with at least 1 molar equivalent of an acid anhydride R_2-C(O)-O-C(O)-R_2, wherein R_2 represents C_1-C_6-alkyl, C_1-C_4-perfluoroalkyl or aryl; in the presence of 0.01-2 molar equivalents of a protic acid selected from the group of mineral acids, alkanesulphonic acids, arylsulphonic acids, perfluoresulphonic acids and perfluoroalkanecarboxylic acids~~

~~or~~

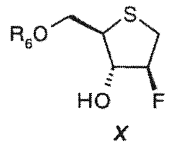
~~in the presence of 0.01-2 molar equivalents of a Lewis acid, wherein R_{13} represents C_1-C_6-alkyl or arylmethylene.~~

[Claims ~~2221~~] The process according to Claim ~~21~~1, wherein the reaction is carried out in the presence of 0.01-2 molar equivalents of potassium bisulphate using at least

5 molar equivalents of acetic anhydride.

[Claims ~~23~~22] The process according to Claim ~~21~~1, wherein the product IIβ is isolated by crystallization from ethanol.

[Claims ~~24~~23] The process for preparing a compound of formula X

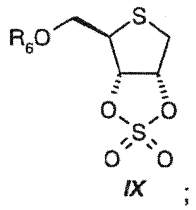


X

wherein R_6 represents C_1-C_6-alkyl, arylmethylene,

which comprises the following steps:

(a) the cyclic sulphate ester of formula IX



IX ;

is initially reacted with 1-3 molar equivalents of an ammonium fluoride of the formula $N(R_{11})_4F$, wherein R_{11} represents C_1-C_6-alkyl, at a temperature between 0°C and 30°C, and

(b) the reaction mixture obtained in this manner is reacted with an acid selected from the group of mineral acids, afkylsulphonic acids, arylsulphonic acids, perfluorosulphonic acids and perfluoroalkanecarboxylic acids.

[Claims ~~25~~24] The process according to Claim ~~24~~23, wherein 1-3 molar equivalents of tetrabutylammonium fluoride are used.

[Claims ~~26~~25] The process according to Claim ~~24~~23, wherein the reaction mixture

obtained in the first partial step is reacted at a temperature between 20°C and 70°C with sulphuric acid (H_2S0_4).

[~~Ciaims 27~~Claims 26] A compound which is selected from

~~1-O-benzyl-3,4-O-isopropylidene-2,5-di-O-methanesulphonyl-L-arabinitol;~~

1,4-anhydro-5-O-benzyl-2,3-O-isopropylidene-4-thio-D-ribitol;

1,4-anhydro-5-O-benzyl-2,3-O-sulphonyl-4-thio-D-ribitol; and

1,4-anhydro-5-O-benzyl-2-deoxy-2-fluoro-4-thio-D-arabinitol.