

Title (en)
LABELLING REAGENTS, METHODS FOR THE SYNTHESIS OF SUCH REAGENTS AND METHODS FOR THE DETECTION OF BIOLOGICAL MOLECULES

Title (de)
MARKIERUNGSREAGENTIEN, VERFAHREN FÜR DIE SYNTHESE SOLCHER REAGENTIEN UND VERFAHREN ZUM NACHWEIS BIOLOGISCHER MOLEKÜLE

Title (fr)
REACTIFS DE MARQUAGE, PROCEDES DE SYNTHESE DE TELS REACTIFS ET PROCEDES DE DETECTION DE MOL CULES BIOLOGIQUES

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Application
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Abstract (en)
[origin: WO2005092910A1] The invention relates to a temperature-stable labelling reagent having formula (0), wherein: R<1> represents H or an alkyl, aryl or substituted aryl group; R<2> represents a detectable label or at least two detectable labels which are inter-linked by at least one multimeric structure; L is a linker arm comprising a linear chain of at least two covalent bonds and n is an integer equal to 0 or 1; R<3> and R<4> represent, independently of each other, H, NO₂, Cl, Br, F, I, R<2> -(L)n-Y-X-, OR, SR, NR₂, R, NHCOR, CONHR, COOR, -CO-NH-(CH₂)₃-(O-CH₂-CH₂)₃-CH₂-NH-R<2>, -CO-NH-(CH₂)₃-(O-CH₂-CH₂)₄-CH₂-NH-R<2>, in which R = alkyl or aryl; A is a linker arm comprising at least one double covalent bond enabling the conjugation of the diazo function with the aromatic ring and u is an integer of between 0 and 2, preferably 0 or 1; -Y-X- represents -CONH-, -NHCO-, -CH₂O-, -CH₂S-; -Z- represents -NH-, -NHCO-, -CONH- or -O-; m is an integer of between 1 and 10, preferably between 1 and 3; and p is an integer of between 1 and 10, preferably between 1 and 3. The invention also relates to a method for the synthesis of said labels and to the use thereof for labelling biological molecules, particularly nucleic acids, with a labelling reagent bearing the diazomethyl function. The invention is particularly suitable for use in the field of diagnostics.

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