

Title (en)  
CYANINE DERIVATIVES, FLUORESCENT CONJUGATES CONTAINING SAME AND USE THEREOF

Title (de)  
CYANINDERIVATE, FLUORESZIERENDE KONJUGATE DARAUS UND VERWENDUNG DAVON

Title (fr)  
DÉRIVÉS DE CYANINE, CONJUGUÉS FLUORESCENTS LES CONTENANT ET LEUR UTILISATION

Publication  
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Application  
**EP 08775696 A 20080307**

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Abstract (en)  
[origin: WO2008125788A1] The invention relates to a cyanine derivatives of the formula in which: the dotted lines are atoms necessary for the formation of one or two fused aromatic cycles, each cycle including 5 or 6 carbon atoms; R<SUB>1</SUB>, R<SUB>2</SUB>, R<SUB>3</SUB>, R<SUB>4</SUB> are independently H; substituted or non substituted C<SUB>1</SUB>-C<SUB>15</SUB> alkyl; C<SUB>1</SUB>-C<SUB>6</SUB> alkoxy; C<SUB>2</SUB>-C<SUB>12</SUB> dialkylamino; C<SUB>1</SUB>-C<SUB>6</SUB> alkoxycarbonyl; C<SUB>2</SUB>-C<SUB>12</SUB> dialkylamido; a substituted or non substituted aryl, arylalkyl or aryloxy group; a halogen atom; nitro; a L1 -W, L2-M, L2-A or L2-G group; R<SUB>5</SUB>, R<SUB>6</SUB> are independently: substituted or non substituted C<SUB>1</SUB>-C<SUB>15</SUB> alkyl; a substituted or non substituted aryl or arylalkyl group; a L1 -W, L2-M, L2- A or L2-G group; X is selected from O, S, CR<SUB>7</SUB>-R<SUB>8</SUB>; Y is selected from O, S, CR<SUB>9</SUB>-R<SUB>10</SUB>; R7, R8, R9, R10 are independently: substituted or non substituted C<SUB>1</SUB>-C<SUB>15</SUB> alkyl; substituted or non substituted aryl, arylalkyl or aryloxy; a L1 -W, L2-M, L2-A or L2-G group; R<SUB>7</SUB> and R<SUB>8</SUB> and/or R<SUB>9</SUB> and R<SUB>10</SUB> may also form together a cycle with 5 or 6 atoms or a heterocycle including 4 to 5 carbon atoms and a hydrogen atom; B is a polymethine bridge including 1 to 5 methine groups, said groups being in particular and individually substituted or non substituted by a substituted or non substituted C<SUB>1</SUB>-C<SUB>15</SUB> alkyl; nitro; a L1 -W, L2-M, L2-A or L2-G group, L1, L2 being binding arms; G is a reactional group; A is a coupling agent; M is a conjugated molecule; W is a phosphate or phosphonate ester (preferably diester) provided the cyanine derivative includes at least one L1 -W group and at least one L2-A, L2-G or L2-M group. The invention can be used or fluorescent compounds for marking biomolecules in cells.

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