

Title (en)
SITE-SPECIFIC LABELLING OF PROTEINS USING CYANINE DYE REPORTERS

Title (de)
ORTSSPEZIFISCHE MARKIERUNG VON PROTEINEN MIT CYANINFARBSTOFFREPORTERN

Title (fr)
MARQUAGE SPECIFIQUE DE PROTEINES EN FONCTION DU SITE AU MOYEN DE COLORANTS DE SIGNALISATION A BASE DE CYANINE

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Abstract (en)
[origin: WO2004011556A1] Disclosed are compounds of formula (I):in which D is a dye selected from a cyanine dye or a derivative thereof; B is an affinity tag;F comprises a target bonding group selected from a carboxylic acid thioester group and a 1,2-aminothiol group; M is a group adapted for attaching to F; and L<1> and L<2> each independently comprise a group containing from 1 to 40 linked atoms selected from carbon atoms which may optionally include one or more groups selected from -NR'- , -O- , -CH=CH- , -CO-NH- and phenylenyl groups, where R' is selected from hydrogen and C1 - C4 alkyl. The invention also relates to methods that afford direct attachment of the cyanine dye reporter group to either the N-terminus or C-terminus of a synthetic or recombinant peptide or protein, and their derivatives, in a site-specific manner, coupled with purification of the resultant labelled molecule.

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