

Title (en)

METHOD FOR NORMALISING THE LUMINESCENCE EMITTED BY A MEASURING MEDIUM

Title (de)

VERFAHREN ZUR NORMALISIERUNG DER VON EINEM MESSMEDIUM EMITTIERTEN LUMINESZENZ

Title (fr)

PROCEDE DE NORMALISATION DE LA LUMINESCENCE EMISE PAR UN MILIEU DE MESURE.

Publication

EP 2817614 A1 20141231 (FR)

Application

EP 12710984 A 20120222

Priority

FR 2012050370 W 20120222

Abstract (en)

[origin: WO2013124544A1] The subject matter of the invention is a method for measuring the luminescence of a long-life fluorescent compound present in a measuring medium, said medium containing a biological sample, characterised in that it comprises the following steps: a) introduction of a long-life fluorescent compound into the measuring medium, b) introduction, into the measuring medium, of a fluorescent marking agent, the absorption spectrum of which allows the excitation thereof at the same wavelength as that used to excite the long-life fluorescent compound, wherein said emission spectrum allows the measurement of the luminescence thereof at the same wavelength as that used to measure the luminescence of the long-life fluorescent compound, c) excitation of the measuring medium with a wavelength corresponding to an absorption peak of the long-life fluorescent compound, d) measurement of the luminescence emitted by the measuring medium immediately after excitation of said medium, mainly corresponding to the luminescence of the marking agent, and for a period of 5 ns to 45 ps, at a wavelength corresponding to an emission peak of the long-life fluorescent compound, e) time-resolved measurement of the luminescence emitted by the measuring medium at the same wavelength as that used in step d), after a delay of 20 to 200 ps following the excitation of the measuring medium and for a period of 200 to 1000 ps, said luminescence mainly corresponding to that of the long-life fluorescent compound, f) calculation of a normalised luminescence signal corresponding to the ratio: (signal obtained in step e) / (signal obtained in step d).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2013124544A1

Citation (examination)

N. GABORIT ET AL: "Time-resolved Fluorescence Resonance Energy Transfer (TR-FRET) to Analyze the Disruption of EGFR/HER2 Dimers: A NEW METHOD TO EVALUATE THE EFFICIENCY OF TARGETED THERAPY USING MONOCLONAL ANTIBODIES", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 286, no. 13, 1 April 2011 (2011-04-01), pages 11337 - 11345, XP055021021, ISSN: 0021-9258, DOI: 10.1074/jbc.M111.223503

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