

Title (en)

A METHOD FOR IMMOBILIZING MOLECULES WITH PHYSIOLOGICAL ACTIVITY

Title (de)

VERFAHREN ZUR IMMOBILISIERUNG VON MOLEKÜLEN MIT PHYSIOLOGISCHER AKTIVITÄT

Title (fr)

PROCEDE PERMETTANT L'IMMOBILISATION DE MOLECULES PRESENTANT UNE ACTIVITE PHYSIOLOGIQUE

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Abstract (en)

[origin: WO02074993A1] The present invention relates to a method for immobilizing a physiologically active molecule whose active sites are masked so as to maintain the physiological activity of the molecule effectively. The method of the present invention comprises the steps of a) incubating the physiologically active molecule with a compound selectively binding to active sites of the molecule for masking the active sites of the molecule, b) introducing a linker that can bind to the masked molecule of steps a) on the surface of a substrate to form a support, c) controlling the rate of the reaction that the masked molecule of step a) bind to the linker on the surface of the support formed in step b), and d) binding the masked molecule of step a) to the linker on the surface of the support of step b) for immobilizing the physiologically active molecule. The method may further comprises the step of e) removing a compound selectively bound to the active sites of the molecule from the immobilized molecule. In this invention, the immobilization rate can be optimized by controlling mole ratio of a reactive functional group on the surface of a support, a mole concentration of the molecule with a physiological activity, pH, reaction time, reaction temperature, the coupling reagent, etc.

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