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(54) **Title:** METHOD FOR THE DETERMINATION OF THE ACTIVITY OF THE ORGANIC CATION TRANSPORTER

(57) **Abstract:** The present invention refers to a method for determining the activity of the organic cation transporter (OCT), a method for determining the activity of or identifying a chemical compound that modulates the activity of OCT with the help of a cell free electrophysiological sensor chip containing a solid-supported sensor electrode and a lipid layer containing the OCT located in the immediate spatial vicinity to the sensor electrode, whereas the sensor electrode is electrically insulated relative to the solutions used and to the lipid layer, as well as to the sensor chip itself and a kit containing same.

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