

Abstract

Preparation for magnetic resonance diagnostics for oncological diseases, comprising deuterated 2-amino-2-methylpropionic acid and/or 2-(n-methylamino)-2-methylpropionic acid, and diagnostic method using said preparation

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The invention relates to medicine, namely to the means for magnetic resonance imaging of the oncological diseases. For this purpose, the diagnostic agent and the diagnostic method based on the use of the diagnostic agent is developed, which is based on a deuterated derivative 2-amino-2-methylpropionic acid or 2-(N-methylamino)-2-methylpropionic acid and/or its pharmaceutically acceptable salt, or a mixture of at least two different deuterated derivatives of 2-amino-2-methylpropionic acid and/or 2-(N-methylamino)-2-methylpropionic acid and/or its pharmaceutically acceptable salts. The method of the invention involves performing magnetic resonance imaging and/or magnetic resonance spectroscopy at the frequency of deuterium nuclei after administration of the diagnostic medication after a time sufficient for the accumulation of the diagnostic agent in the tumor of a subject, for obtaining, respectively, MR images and/or MR spectra.

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The proposed method allows diagnosing oncological diseases with high informational content.

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(No suitable figure)