

Magnetic Resonance Imagine Probe

Highly fluorinated gelatin chains and nanoparticles for 19F MRI and theranostic applications

TYPE OF DEVELOPMENT

Design of a biodegradable 19F imaging probe based on both highly fluorinated gelatin chains and nanoparticles for 19F MRI and theragnostic applications.

DESCRIPTION

The present invention relates to a gelatine chain conjugated with at least one perfluorotert-butoxy group via a linker connecting the gelatine chain with said group, to a pharmaceutical composition comprising said conjugated gelatine chain and to their use as 19F MRI probe. The invention also relates to a nanoparticle comprising a plurality of such gelatine chains, to a pharmaceutical composition comprising said nanoparticle and to their use as 19F MRI probe. Methods and synthetic intermediates for the preparation of said conjugated gelatine chain and nanoparticle also form part of the invention.

INDICATION

For use as a fluorinated 19F MRI probe and for theragnostics.

NOVELTY/ADVANTAGE

- Technical advantages: easy to use
- Social advantages: reduce residues and Improve working conditions
- Economic advantages: reduce costs

Reference: (ContrastAgent)



Research group:

Fluoro Nano Tools

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IPR STATUS

Patent filing:

EP25382714 (Pending)

Priority date:

09/07/2025

Applicant: University
of the Basque Country
(EHU).

COOPERATION GOAL

- Licensing-out.
- Sponsored research.
- New venture.