TECHNOLOGY OFFER

Lanthanide-based luminescent probes as diagnostic tool

Health / In vitro diagnostics

REFERENCE

LUMINESCENT PROBES [L1149-L1633]

KEYWORDS

LANTHANIDE / FLUORESCENCE / IN VITRO DIAGNOSTICS / PROBE /



APPLICATIONS

Fluorescent probes for molecular and cellular biology imaging analyses :

- In vitro diagnostic reagent
- R&D tool



TARGET MARKETS / END USERS

- In vitro diagnostic industry / Molecular diagnostics
- End users : hospitals, clinics, R&D laboratories

Technology readiness level



INTELLECTUAL PROPERTY

Priority patent application FR1353037, extended in US, EP.

Priority patent application FR1756385.

CONTACT US

Martine CANTUEL, PhD +33(0)4 26 23 56 61 Martine.Cantuel[@]pulsalys.fr

DESCRIPTION

New luminescent probes dedicated to molecular and cellular biology imaging (fluorescence microscopy, FACS...) have been designed. They are lanthanide-based complexes, highly soluble in water and in biological media. They show specific fluorescence properties, like high brightness and very thin emission spectra, compared to classical fluorophores. Specific molecular or cellular targeting is possible after conjugation with biomolecules, and FRET experiments can be conducted with appropriate fluorophores. Excitation wavelength range is compatible with most commercially available equipment.

COMPETITIVE ADVANTAGES

- High brightness
- Thin emission spectra and long lifetimes
- High stability and water solubility
- Easy synthesis
- Non-specific binding avoided
- Compatible with existing equipment (eg laser source at 337 nm)
- Reactive groups available to allow for bioconjugation

DEVELOPMENT STATUS

Comparatives studies (brightness, lifetime) with competiting molecules (eg Tb-Lumi4)

PARTNERSHIP

PULSALYS is looking for co-development or commercialization / licensing industrial partners.



RETROUVEZ NOS OPPORTUNITÉS www.pulsalys.fr/entreprise/offres-technologies/

PULSALYS SATT LYON ST ETIENNE : 47 bd du 11 novembre 1918 - CS 90170 69625 Villeurbanne Cedex FRANCE 