

Mitochondrial Luminophore Small Molecule (Tool Compound)

Catalogue number: 152785

Sub-type: Luminophore

Images:

Contributor

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Institute: Lancaster University

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Mitochondrial Luminophore Small Molecule (Tool Compound)

Alternate name:

Class:

Conjugate:

Description: 3-Chloromethylpyridyl bipyridine fac-tricarbonyl rhenium is a mitochondrion-selective metal-to-ligand charge transfer rhenium dye, that has been designed for a specific biological target. It has the advantage of a long lifetime and a large Stokes shift, which makes it an attractive candidates for biological imaging.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: 3-Chloromethylpyridyl bipyridine fac-tricarbonyl rhenium showed the typical photophysical properties of a cationic rhenium tricarbonyl bisimine; excitation at λ_{max} 364 nm, emission at λ_{max} 551 nm and a fluorescence lifetime of $t = 131$ ns.

Target details

Target:

Target alternate names:

Target background:

Molecular weight: 554

Ic50:

Applications

Application:

Application notes:

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Hydrolytically stable under mild conditions for many hours

Shipping conditions: Dry Ice

Related tools

Related tools:

References

References: Gilley J et al. Neurobiol Aging. 2016 Mar;39:1-18; PMID: 26923397

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