

Nucleolar Luminophore Ag-1 Small Molecule (Tool Compound)

Catalogue number: 152786

Sub-type: Luminophore

Images:

Contributor

Inventor: Michael Coogan

Institute: Lancaster University

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Nucleolar Luminophore Ag-1 Small Molecule (Tool Compound)

Alternate name:

Class:

Conjugate:

Description: Ag-1 is a luminescent trimeric, rehenium-based molecular vessel which strongly binds silver ions. Ag-1 displays a large Stokes shift (ca. 200nm) which compares very favourably with large Stokes shift materials such as quantum dots. A distinct pattern of localisation has been observed within the nucleus suggesting nucleolar localisation. This could be useful not only for the ability to image nucleoli, but also suggests applications in radiotherapy as Auger electrons emitted by certain isotopes...

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: Ag-1: λ ? max excitation = 371 nm (broad peak extends into the visible and can be excited at 405 nm in microscopy) λ ? max emission = 571; lifetime ?? = 21 ns. Ag-1 does not release Ag⁺ except under forcing conditions, unlike physiological conditions.

Target details

Target:

Target alternate names:

Target background:

Molecular weight: 1735

Ic50:

Applications

Application:

Application notes:

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry Ice

Related tools

Related tools:

References

References: New J. Chem., 2008,32, 1097-1102 DOI: 10.1039/B802215A

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