

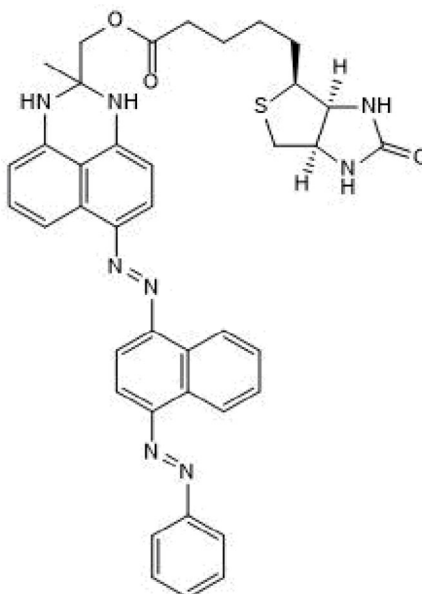
Certificate of Analysis

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| | | |
|---|--------------------------|---------------------|
| Product Name: SenTraGor™ | Catalog No.: 7555 | Batch No.: 1 |
| CAS Number: 2171036-89-6 | | |
| IUPAC Name: (2-Methyl-6-((<i>E</i>)-(4-((<i>E</i>)-phenyldiazenyl)naphthalen-1-yl)diazenyl)-2,3-dihydro-1 <i>H</i> -perimidin-2-yl)methyl 5-((3 <i>aS</i> ,4 <i>S</i> ,6 <i>aR</i>)-2-oxohexahydro-1 <i>H</i> -thieno[3,4- <i>d</i>]imidazol-4-yl)pentanoate | | |

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₃₉ H ₃₈ N ₈ O ₃ S |
| Batch Molecular Weight: | 698.85 |
| Physical Appearance: | Black solid |
| Solubility: | ethanol to 10 mM with gentle warming DMSO to 20 mM |
| Storage: | Store at -20°C |
| Batch Molecular Structure: | |



2. ANALYTICAL DATA

| | |
|---------------------------|---------------------------|
| HPLC: | Shows 98.0% purity |
| ¹H NMR: | Consistent with structure |
| Mass Spectrum: | Consistent with structure |
| UV Spectrum: | Consistent with structure |
| λ_{max}: | 600 nm (Ethanol) |
| Microanalysis: | |

| | Carbon Hydrogen Nitrogen | | |
|-------------|--------------------------|------|-------|
| Theoretical | 67.03 | 5.48 | 16.03 |
| Found | 66.66 | 5.4 | 15.66 |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 2171036-89-6

IUPAC Name: (2-Methyl-6-((*E*)-(4-((*E*-phenyldiazenyl)naphthalen-1-yl)diazenyl)-2,3-dihydro-1*H*-perimidin-2-yl)methyl 5-((3*aS*,4*S*,6*aR*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanoate

Description:

SenTraGor™ is a reagent for detecting lipofuscin in senescent cells. A highly lipophilic and biotinylated analog of Sudan Black B; can be detected using an anti-biotin antibody. Can be used in vivo and in vitro in any biological material including cell cultures, fresh and frozen tissues, and fixed embedded samples. Compatible with immunohistochemistry, flow cytometry and immunofluorescence analysis. SenTraGor™ is a trademark of University of Manchester.

Physical and Chemical Properties:

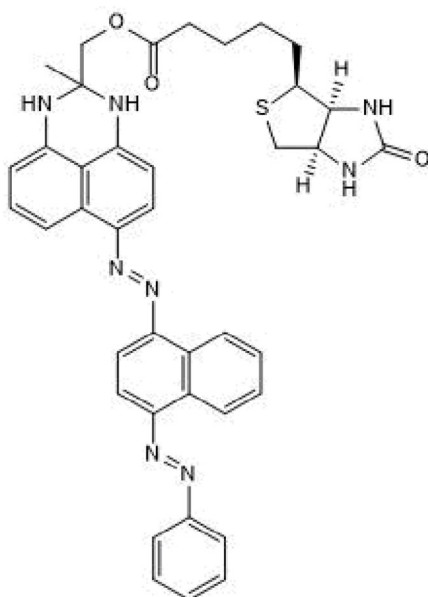
Batch Molecular Formula: C₃₉H₃₈N₈O₃S

Batch Molecular Weight: 698.85

Physical Appearance: Black solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 10 mM with gentle warming
DMSO to 20 mM

Solubilizing this product in ethanol may require extended warming at 40°C for up to 2 hours.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from University of Manchester Innovation Factory

References:

Evangelou et al (2017) Robust, universal biomarker assay to detect senescent cells in biological specimens *Aging Cell* **16** 192. PMID: 28165661.

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