

Product Name: SenTraGor™

Catalog No.: 7555

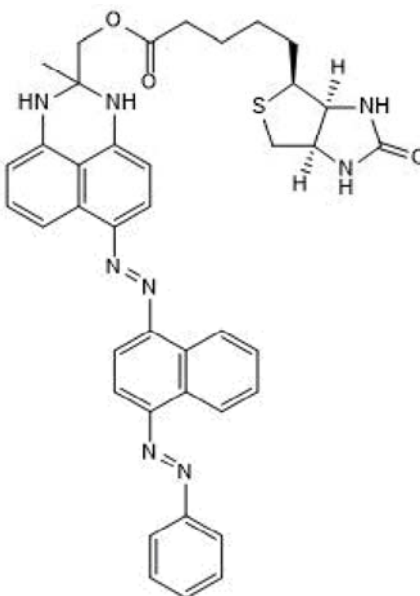
Batch No.: 1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₉H₃₈N₈O₃S
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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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.

Physical and Chemical Properties:

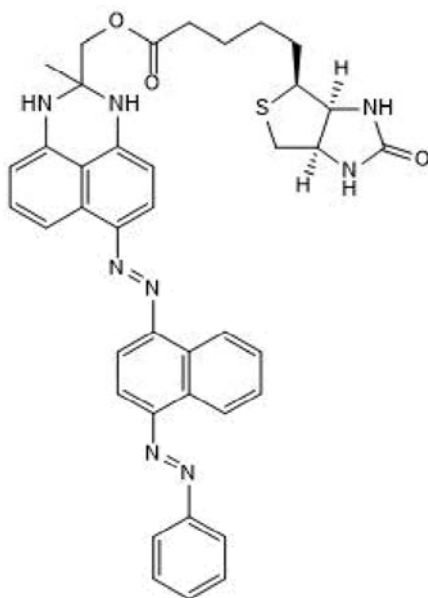
Batch Molecular Formula: C₃₉H₃₈N₈O₃S

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. Our standard recommendations are:

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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