

Product Name: SPT Imidazopyridine 1

Catalog No.: 6055

Batch No.: 1

CAS Number: 1933533-18-6

IUPAC Name: 4-[6-(1-Oxoheptyl)imidazo[1,2-a]pyridin-8-yl]benzeneacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₄N₂O₃·¼H₂O

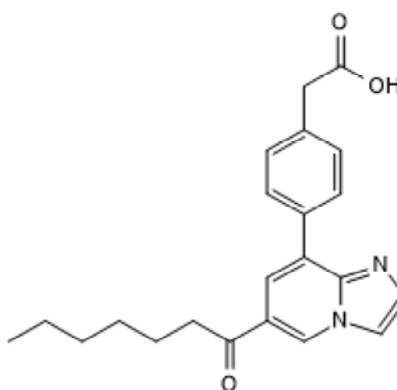
Batch Molecular Weight: 368.94

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (4 % MeOH in CH₂Cl₂)

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.62	6.69	7.59
Found	71.84	6.71	7.52

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

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Description:

Potent serine palmitoyl transferase (SPT) inhibitor ($IC_{50} = 5$ nM). Dose-dependently inhibits incorporation of ¹⁴C-serine into ceramide. Reduces plasma ceramide levels in vivo. Also increases plasma HDL and reduces vLDL cholesterol levels in rats.

Physical and Chemical Properties:

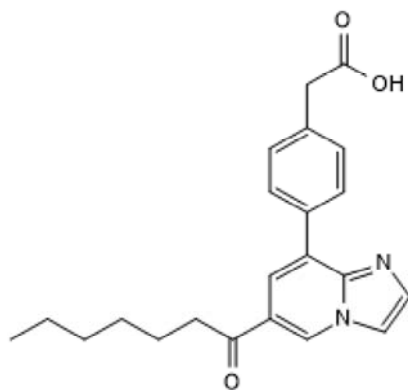
Batch Molecular Formula: C₂₂H₂₄N₂O₃·½H₂O

Batch Molecular Weight: 368.94

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

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.

References:

Genin et al (2016) Imidazopyridine and pyrazolopiperidine derivatives as novel inhibitors of serine palmitoyl transferase. *J.Med.Chem.* **59** 5904. PMID: 27213958.

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