

Product Name: Lomitapide mesylate

Catalog No.: 7492

Batch No.: 1

CAS Number: 2059395-52-5

IUPAC Name: *N*-(2,2,2-Trifluoroethyl)-9-[4-[4-[[[4'-(trifluoromethyl)[1,1'-biphenyl]-2-yl]carbonyl]amino]-1-piperidinyl]butyl]-9*H*-fluorene-9-carboxamide methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₉H₃₇F₆N₃O₂·CH₃SO₃H·¾H₂O

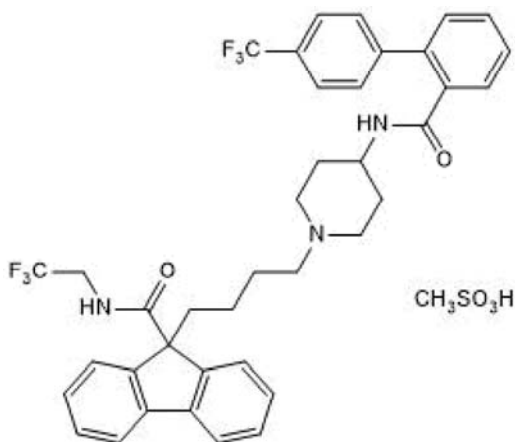
Batch Molecular Weight: 803.34

Physical Appearance: White solid

Solubility: DMSO to 20 mM
ethanol to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.81	5.33	5.23
Found	59.53	5.32	5.21

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Description:

Lomitapide mesylate is a potent inhibitor of microsomal triglyceride transfer protein (IC₅₀ = 8 nM). Lomitapide inhibits or normalizes lipoprotein production in rodents and in a rabbit model of hypercholesterolemia. Lomitapide is antimalarial; it inhibits hemozoin formation and growth of CQ-sensitive (PfNF54) and multidrug-resistant (PfK1) strains of *P. falciparum* (IC₅₀ values are 0.56 μM and 0.69 μM respectively). Orally bioavailable.

Physical and Chemical Properties:

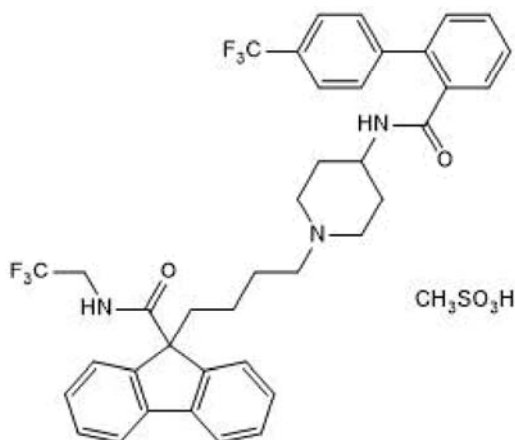
Batch Molecular Formula: C₃₉H₃₇F₆N₃O₂·CH₃SO₃H·¾H₂O

Batch Molecular Weight: 803.34

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM
ethanol to 10 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:

Sousa et al (2020) Lapatinib, Nilotinib and Lomitapide inhibit haemozoin formation in malaria parasites. *Molecules* **25** 1571. PMID: 32235391.

Robl et al (2001) A novel series of highly potent benzimidazole-based microsomal triglyceride transfer protein inhibitors. *J.Med.Chem.* **44** 856. PMID: 11300866.

Wetterau et al (1998) An MTP inhibitor that normalizes atherogenic lipoprotein levels in WHHL rabbits. *Science* **282** 751. PMID: 9784135.

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