Print Date: Mar 7th 2019

Certificate of Analysis

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Product Name: **Darapladib** **Catalog No.: 6755** **Batch No.: 1**

CAS Number: 356057-34-6

IUPAC Name: *N*-[2-(Diethylamino)ethyl]-2-[[(4-fluorophenyl)methyl]thio]-4,5,6,7-tetrahydro-4-oxo-*N*-[[4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]methyl]-1*H*-cyclopentapyrimidine-1-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{36}H_{38}F_4N_4O_2S.H_2O$

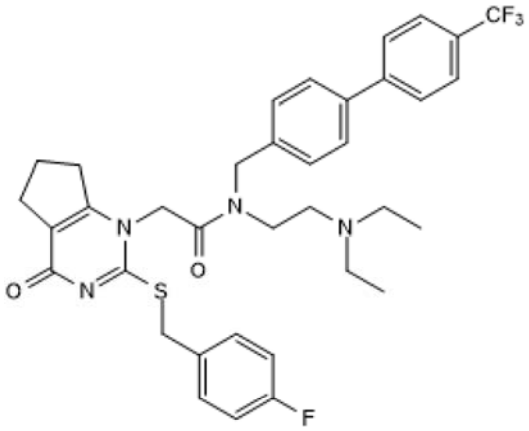
Batch Molecular Weight: 684.79

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.14	5.89	8.18
Found	62.91	5.8	8.25

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Description:

Potent lipoprotein-associated phospholipase A_2 (lp-PLA_2) inhibitor (IC_{50} = 5 nM in whole human plasma).

Physical and Chemical Properties:

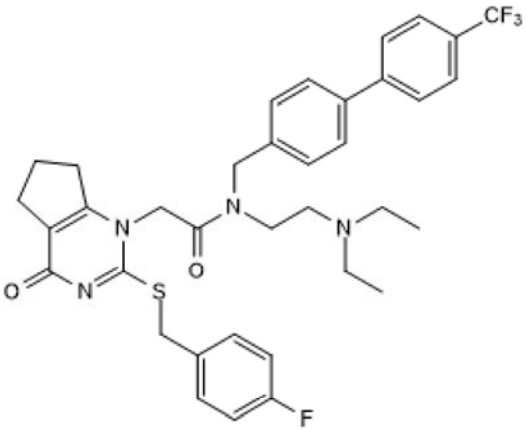
Batch Molecular Formula: $C_{36}H_{38}F_4N_4O_2S.H_2O$

Batch Molecular Weight: 684.79

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Blackie *et al* (2003) The identification of clinical candidate SB-480848: a potent inhibitor of lipoprotein-associated phospholipase A_2. Bioorg.Med.Chem.Lett. ***13*** 1067. PMID: 12643913.