

Product Name: PF 05105679

Catalog No.: 6003

Batch No.: 1

CAS Number: 1398583-31-7

IUPAC Name: 3-[[[(1*R*)-1-(4-Fluorophenyl)ethyl](3-quinolinylcarbonyl)amino]methyl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₁FN₂O₃·½H₂O

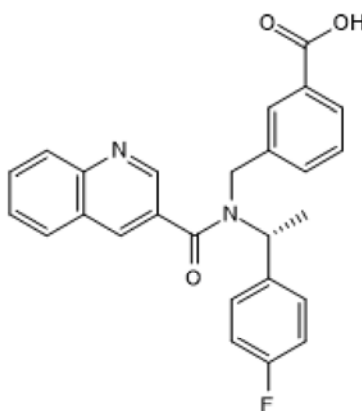
Batch Molecular Weight: 437.46

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.38	5.07	6.4
Found	71.47	4.89	6.38

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

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Description:

PF 05105679 is a selective TRPM8 blocker (IC₅₀ = 103 nM) that exhibits >100-fold selectivity for TRPM8 over a panel of receptors, ion channels and enzymes, including TRPV1 and TRPA1 ion channels. PF 05105679 reduces body temperature in rats and reverses cold-induced bladder capacity reduction in guinea pigs. This compound is orally bioavailable.

Physical and Chemical Properties:

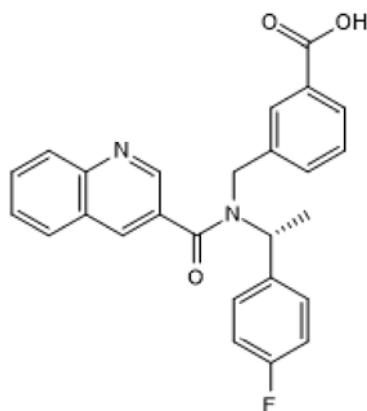
Batch Molecular Formula: C₂₆H₂₁FN₂O₃·½H₂O

Batch Molecular Weight: 437.46

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc

References:

Andrews *et al* (2015) Discovery of a selective TRPM8 antagonist with clinical efficacy in cold-related pain. *ACS Med.Chem.Lett.* **6** 419. PMID: 25893043 .

Winchester *et al* (2014) Inhibition of TRPM8 channels reduces pain in the cold pressor test in humans. *J.Pharmacol.Exp.Ther.* **351** 259. PMID: 25125580.

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