

Certificate of Analysis

Product Name: PF 750

Catalog No.: 3307

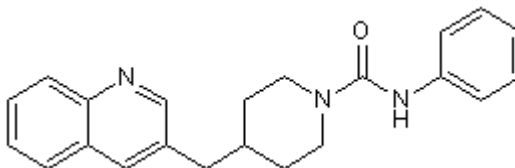
Batch No.: 1

CAS Number: 959151-50-9

IUPAC Name: *N*-Phenyl-4-(3-quinolinylmethyl)-1-piperidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₃N₃O.¾H₂O
Batch Molecular Weight: 358.95
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.62 (Ethyl acetate:Methanol [95:5])
HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	73.61	6.88	11.71
Found	73.57	6.63	11.79

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

Product Name: PF 750

Catalog No.: 3307

Batch No.: 1

CAS Number: 959151-50-9

IUPAC Name: *N*-Phenyl-4-(3-quinolinylmethyl)-1-piperidinecarboxamide

Description:

Irreversible fatty acid amide hydrolase (FAAH) inhibitor (IC₅₀ = 16.2 nM) that displays no activity at a range of other serine hydrolases. Selectively inhibits FAAH within the central nervous system. Orally active.

Physical and Chemical Properties:

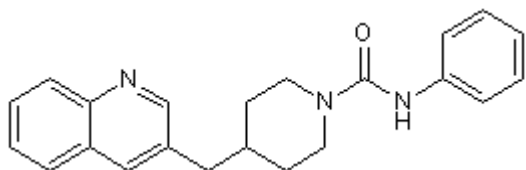
Batch Molecular Formula: C₂₂H₂₃N₃O.¾H₂O

Batch Molecular Weight: 358.95

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Ahn *et al* (2007) Novel mechanistic class of fatty acid amide hydrolase inhibitors with remarkable selectivity. *Biochemistry* **46** 13019. PMID: 17949010.

Mileni *et al* (2008) Structure-guided inhibitor design for human FAAH by interspecies active site conversion. *Proc.Natl.Acad.Sci.USA* **105** 12820.

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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956