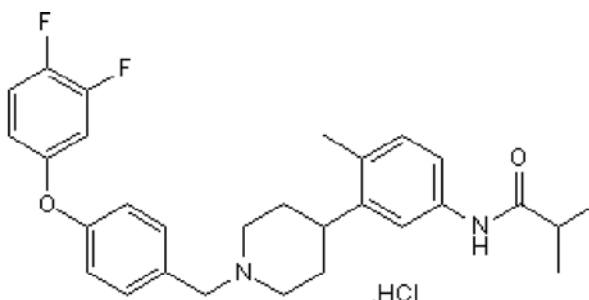


Product Name: SNAP 94847 hydrochloride **Catalog No.:** 3347 **Batch No.:** 2
CAS Number: 1781934-47-1
IUPAC Name: N-[3-[1-[[4-(3,4-Difluorophenoxy)phenyl]methyl]-4-piperidiny]-4-methylphenyl]-2-methylpropanamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₂F₂N₂O₂.HCl.H₂O
Batch Molecular Weight: 533.05
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.34	6.62	5.26
Found	65.29	6.51	5.28

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Description:

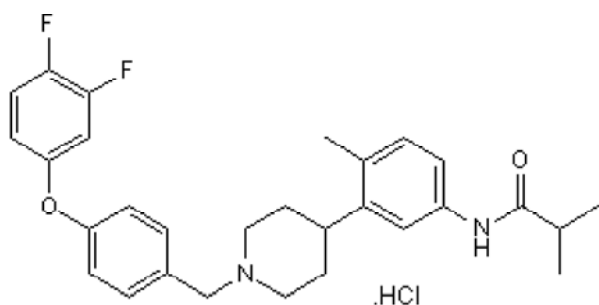
Potent melanin-concentrating hormone receptor 1 (MCH₁) antagonist (K_i = 2.2 nM, K_D = 530 pM) that displays > 80-fold and > 500-fold selectivity over α_{1A} and D₂ receptors respectively. Increases neurogenesis in the dentate gyrus and decreases food-reinforced operant responding in vivo. Exhibits anxiolytic activity and is orally active.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₉H₃₂F₂N₂O₂.HCl.H₂O
 Batch Molecular Weight: 533.05
 Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate 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.

References:

Nair et al (2009) Effects of the MCH1 receptor antagonist SNAP 94847 on high-fat food-reinforced operant responding and reinstatement of food seeking in rats. *Psychopharmacology* **205** 129. PMID: 19340414.

Chen et al (2007) Synthesis and SAR investigations for novel melanin-concentrating hormone 1 receptor (MCH1) antagonists part 2: A hybrid strategy combining key features of HTS hits. *J.Med.Chem.* **50** 3883. PMID: 17668922.

David et al (2007) Efficacy of the MCHR1 antagonist N-[3-(1-[4-(3,4-difluorophenoxy)phenyl]methyl)(4-piperidyl)-4-methylphenyl]-2-methylpropanamide (SNAP 94847) in mouse models of anxiety and depression following acute and chronic administration is independent of J.Pharmacol.Exp.Ther. **321** 237. PMID: 17237257.

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