

Product Name: E 2012

Catalog No.: 5550

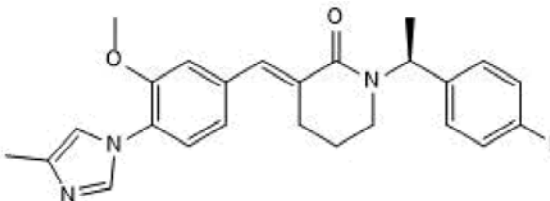
Batch No.: 1

CAS Number: 870843-42-8

IUPAC Name: (3*E*)-1-[(1*S*)-1-(4-Fluorophenyl)ethyl]-3-[[[3-methoxy-4-(4-methyl-1*H*-imidazol-1-yl)phenyl]methylene]-2-piperidone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₆FN₃O₂
Batch Molecular Weight: 419.49
Physical Appearance: White solid
Solubility: 1eq. HCl to 100 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.4% purity
Chiral HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.58	6.25	10.02
Found	71.61	6.28	9.77

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

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Description:

γ-secretase modulator. Lowers Aβ40 and Aβ42 levels and increases Aβ37 levels, in vitro and in vivo. Displays no effect on γ-secretase processing of Notch, EphA4 and EphB2.

Physical and Chemical Properties:

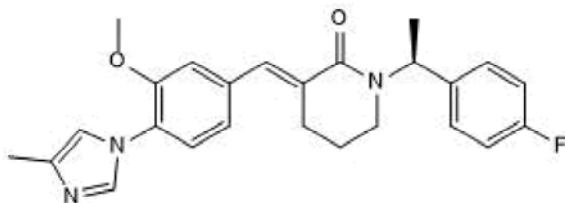
Batch Molecular Formula: C₂₅H₂₆FN₃O₂

Batch Molecular Weight: 419.49

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

1eq. HCl to 100 mM

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:

Borgegard *et al* (2012) First and second generation γ-secretase modulators (GSMs) modulate amyloid-β (Aβ) peptide production through different mechanisms. *J.Biol.Chem.* **287** 15. PMID: 22334705.

Portelius *et al* (2010) Acute effect on the Aβ isoform pattern in CSF in response to γ-secretase modulator and inhibitor treatment in dogs. *J.Alzheimers Dis.* **21** 1005. PMID: 20634579.

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