

Product Name: LY 2886721

Catalog No.: 7081

Batch No.: 1

CAS Number: 1262036-49-6

IUPAC Name: *N*-[3-[(4*a*S,7*a*S)-2-Amino-4*a*,5-dihydro-4*H*-furo[3,4-*d*][1,3]thiazin-7*a*(7*H*)-yl]-4-fluorophenyl]-5-fluoro-2-pyridinecarboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆F₂N₄O₂S.HCl.1½H₂O

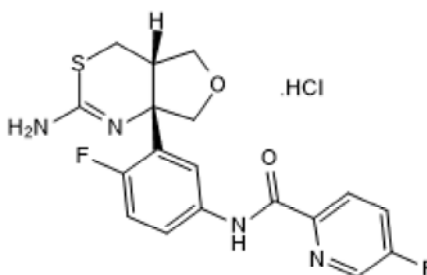
Batch Molecular Weight: 453.89

Physical Appearance: Cream solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.63	4.44	12.34
Found	47.6	4.27	12.25

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

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Description:

Potent and selective β -secretase (BACE) inhibitor (IC₅₀ values are 10.2 and 20.3 nM for human BACE2 and BACE1, respectively). Displays >5,000-fold selectivity for BACE over other proteases including cathepsin D, pepsin and renin. Inhibits A β 1-40 and A β 1-42 production in cells expressing mutated APP. Reduces hippocampal and cortical A β and sAPP β levels in an Alzheimer's disease mouse model.

Physical and Chemical Properties:

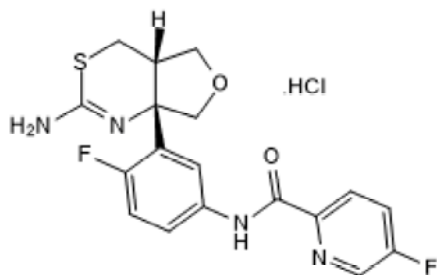
Batch Molecular Formula: C₁₈H₁₆F₂N₄O₂S.HCl.1½H₂O

Batch Molecular Weight: 453.89

Physical Appearance: Cream solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

May *et al* (2015) The potent BACE1 inhibitor LY2886721 elicits robust central A β pharmacodynamic responses in mice, dogs and humans. *J.Neurosci.* **35** 1199. PMID: 25609634.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

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