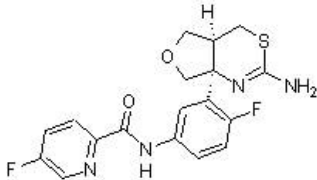


## Product datasheet

# LY2886721, BACE-1 inhibitor ab223886

1 Image

### Overview

<b>Product name</b>	LY2886721, BACE-1 inhibitor
<b>Description</b>	Potent and selective BACE-1 inhibitor
<b>Biological description</b>	Potent and selective BACE-1 inhibitor (IC <sub>50</sub> = 20.3 nM for recombinant hBACE-1). Human BACE2 is inhibited with an IC <sub>50</sub> of 10.2 nM. Does not inhibit other aspartyl proteases such as cathepsin D, pepsin, and renin. A potential agent to treat Alzheimer's Disease. Inhibits production of Aβ in HEK-293 Swe cells (IC <sub>50</sub> values are 18.5 nM and 19.7 nM for Aβ1-40 and Aβ1-42 respectively) and in PDAPP neuronal cells (IC <sub>50</sub> ~10 nM). Reduces dose-dependently brain levels of Aβ, C99 and sAPPβ in orally administered mouse model and plasma Aβ in dog model. Ppenetrates the blood-brain barrier.
<b>Purity</b>	> 98%
<b>General notes</b>	This product is manufactured by BioVision, an Abcam company and was previously called 2299 LY2886721. 2299-25 is the same size as the 25 mg size of ab223886.
<b>CAS Number</b>	1262036-50-9
<b>Chemical structure</b>	

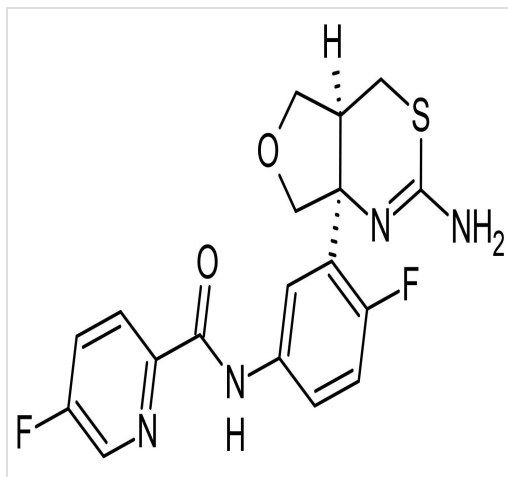
### Properties

<b>Chemical name</b>	<i>N</i> -(3-((4a <i>S</i> ,7a <i>S</i> )-2-Amino-4a,5,7,7a-tetrahydro-4 <i>H</i> -furo[3,4- <i>d</i> ][1,3]thiazin-7a-yl)-4-fluorophenyl)-5-fluoropyridin-2-ylamide
<b>Molecular weight</b>	390.41
<b>Molecular formula</b>	C <sub>18</sub> H <sub>16</sub> F <sub>2</sub> N <sub>4</sub> O <sub>2</sub> S
<b>PubChem identifier</b>	49837968
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Store In the Dark. Store under desiccating conditions.
<b>Solubility overview</b>	Soluble in DMSO to 20 mM, in Ethanol < 2 mM
<b>SMILES</b>	C1[C@H]2CSC(=N[C@]2(CO1)C3=C(C=CC(=C3)NC(=O)C4=NC=C(C=C4)F)F)N

Source

Synthetic

## Images



Chemical Structure - LY2886721, BACE-1 inhibitor  
(ab223886)

2D chemical structure image of ab223886, LY2886721, BACE-1 inhibitor

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team