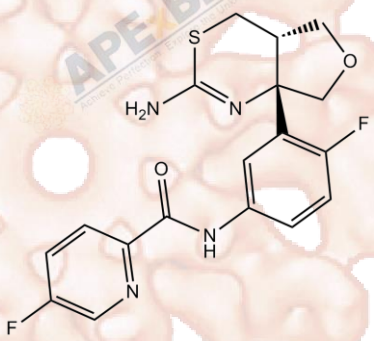
Product Data Sheet

LY2886721



Cat. No.:	A8465
CAS No.:	1262036-50-9
Formula:	C18H16F2N4O2S
M.Wt:	390.41
Synonyms:	
Target:	Neuroscience
Pathway:	BACE
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

insoluble in H2O; insoluble in EtOH; ⩾19.52 mg/mL in DMSO

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	2.5614 mL	12.8070 mL	25.6141 mL
5 mM	0.5123 mL	2.5614 mL	5.1228 mL
10 mM	0.2561 mL	1.2807 mL	2.5614 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	BACE inhibitor
IC_{50} & Target	
In Vitro	**Cell Viability Assay**
	Preparation method：
In Vivo	**Animal experiment**
	Animal models: PDAPP mice
	Dosage form: 3, 10 or 30 mg/kg; p.o.
	Applications: At all 3 doses, LY2886721 significantly reduced hippocampal and cortical

	levels of Aβ1-x. In addition, LY2886721 significantly lowered brain parenchymal levels of C99 and sAPPβ. Although cortical levels of C99 were reduced significantly by LY2886721 at the doses of 10 and 30 mg/kg, the effect of LY2886721 at the dose of 3 mg/kg failed to reach statistical significance. On the other hand, the sAPPβ levels were significantly decreased by LY2886721 at all 3 doses.
Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Audrain M, Souchet B, et al. "βAPP Processing DrivesGradual Tau Pathology in an Age-Dependent Amyloid Rat Model of Alzheimer'sDisease." Cereb Cortex. 2017 Oct 18:1-18.PMID:29048465

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References

[1]. May PC, Willis BA, Lowe SL, Dean RA, Monk SA, Cocke PJ, Audia JE, Boggs LN, Borders AR, Brier RA, Calligaro DO, Day TA, Ereshefsky L, Erickson JA, Gevorkyan H, Gonzales CR, James DE, Jhee SS, Komjathy SF, Li L, Lindstrom TD, Mathes BM, Martényi F, Sheehan SM, Stout SL, Timm DE, Vaught GM, Watson BM, Winneroski LL, Yang Z, Mergott DJ. The potent BACE1 inhibitor LY2886721 elicits robust central Aβ pharmacodynamic responses in mice, dogs, and humans. J Neurosci. 2015 Jan 21;35(3):1199-210.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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