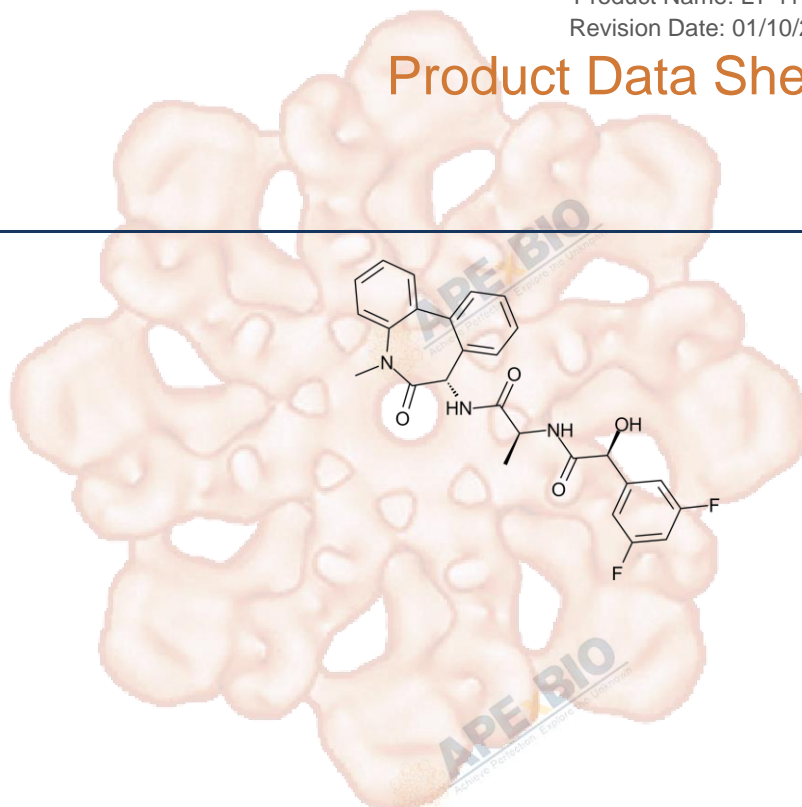


Product Data Sheet

LY-411575

Cat. No.:	A4019
CAS No.:	209984-57-6
Formula:	C ₂₆ H ₂₃ F ₂ N ₃ O ₄
M.Wt:	479.48
Synonyms:	
Target:	Proteases
Pathway:	Gamma Secretase
Storage:	Store at -20°C



Solvent & Solubility

≥23.85 mg/mL in DMSO; insoluble in H₂O; ≥98.4 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.0856 mL	10.4280 mL	20.8559 mL
	5 mM		0.4171 mL	2.0856 mL	4.1712 mL
	10 mM		0.2086 mL	1.0428 mL	2.0856 mL

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

Biological Activity

Shortsummary

Gamma secretase inhibitor

IC₅₀ & Target

0.078 nM (membrane-based) 0.082 nM (cell-based) (γ-secretase), 0.39 nM (Notch S3 cleavage)

In Vitro

Cell Viability Assay

Cell Line:	HEK293 cells expressing human APP carrying both the Swedish and London mutations or N E.
Preparation method:	Soluble in DMSO > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	4 h.

	Applications:	In HEK293 cells expressing human APP or N E, LY-411,575 inhibits A β 40 and NICD production with IC50 values of 0.082 and 0.39 nM, respectively.
In Vivo	Animal experiment	
	Animal models:	Six-week-old female TgCRND8 or male C57BL/6 mice.
	Dosage form:	1-10 mg/kg; dosed orally once/day for 5 or 15 days.
	Applications:	In TgCRND8 mice, LY-411,575 decreases brain and plasma A β 40 and A β 42. LY-411,575 (10 mg/kg) reduces weight of mice by 2 g. LY-411,575 induces a marked atrophy of the cortical zone of the thymus and reduces the amount of thymocyte cells.
	Preparation method:	Formulated as 10 mg/ml solutions in 50% polyethylene glycol, 30% propylene glycol, 10% ethanol and diluted in 0.4% methylcellulose for dosing.
	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

See more customer validations on www.apexbt.com.

References

[1]. Wong GT, Manfra D, Poulet FM, et al. Chronic treatment with the gamma-secretase inhibitor LY-411,575 inhibits beta-amyloid peptide production and alters lymphopoiesis and intestinal cell differentiation. J Biol Chem, 2004, 279(13): 12876-12882.

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 APEX-BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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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