# **Compound E**

y-Secretase inhibitor

γ-Secretase is a multimeric and transmembrane aspartyl protease constituted of four subunits: presenilin, nicastrin, Aph-1, and Pen-2. Presenilin is the catalytic subunit of γ-secretase. The carboxyl-terminal fragments (CTFs) of Amyloid precursor protein (APP) and of Notch are two well-known substrates of γ-secretase. Aberrant cleavage of these substrates by γ-secretase is associated with Alzheimer's disease and cancer, respectively. g-Secretase is, therefore, a promising drug target. Compound E is a cell permeable, potent, selective, and non-competitive inhibitor of γ-secretase. It inhibits the cleavage of both APP and Notch CTFs (IC $_{50}$ =0.3nM for total β-amyloid). At higher concentrations (20-400μM), It only weakly affects the activity of presenilin. Compound E was shown to impede ovarian folliculogenesis, promotes neuronal differentiation, and down-regulate thymocyte development.

Citations: 43

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### **Ordering Information**

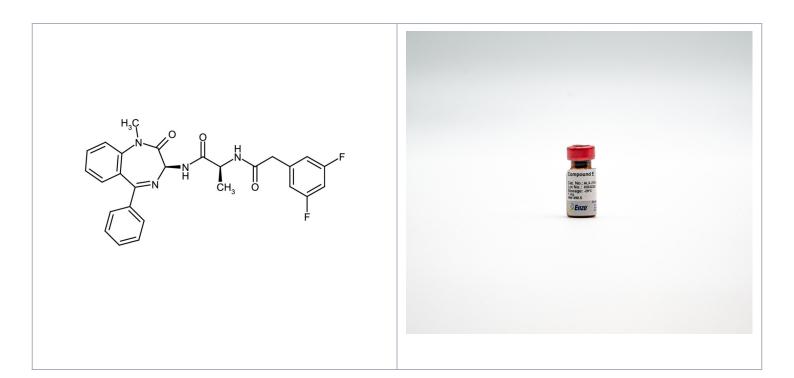
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ALX-270-415-M001	1mg
ALX-270-415-C250	250μg

Manuals, SDS & CofA

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- Cell-permeable, potent, and noncompetitive selective inhibitor of γsecretase and Notch pathway
- Inducer of neuronal differentiation
- · Active in vitro and in vivo



#### **Handling & Storage**

**Use/Stability** As indicated on product label or CoA when stored as recommended. Stock solutions in

DMSO are stable for at least 1 month when stored at -20°C.

**Handling** Keep under inert gas.

Short Term Storage +4°C

Long Term Storage -20°C

**Shipping** Ambient Temperature

## Regulatory Status RUO - Research Use Only

#### **Product Details**

Alternative Name (2S)-2-{[(3,5-Difluorophenyl)acetyl]amino}-N-[(3S)-1-

methyl-2-oxo-5-phenyl-2,3-dihydro-1H-1,4-benzodiazepin-

3-yl]propanamide, γ-Secretase Inhibitor, GSI

**Appearance** White to off-white powder.

CAS 209986-17-4

Couple Target Secretase

Couple Type Inhibitor

Formula  $\mathsf{C}_{27}\mathsf{H}_{24}\mathsf{F}_2\mathsf{N}_4\mathsf{O}_3$ 

Identity Identity determined by MS and NMR.

MW 490.5

Purity ≥95% (HPLC)

**Soluble** in DMSO (50 mg/ml).



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