

## DAPT, g-secretase inhibitor

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Catalog	Unit
TBI4514-5MG	5 mg
TBI4514-25MG	25 mg

### Product Details

**Formal Name:** N-[N-(3,5-Difluorophenacetyl)-L-alanyl]-S-phenylglycine t-butyl ester

**Alternate Names:** LY-374973

**Molecular Formula:** C<sub>23</sub>H<sub>26</sub>F<sub>2</sub>N<sub>2</sub>O<sub>4</sub>

**Formula Weight:** 432.46

**CAS Number:** 208255-80-5

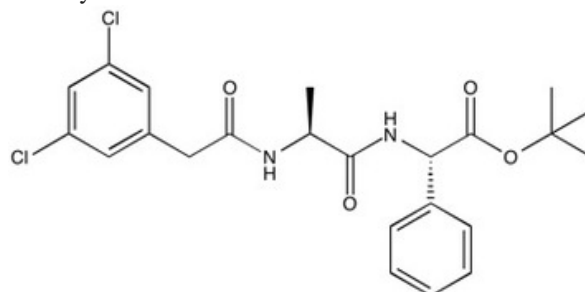
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 18 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

g-secretase inhibitor

### Functions

Inhibitor of  $\gamma$ -secretase (IC<sub>50</sub> in human primary neurons = 115 nM for total A $\beta$  or 200 nM for A $\beta$ 42 specifically). Oral administration of DAPT has been shown to reduce levels of A $\beta$  in brain extract, cerebrospinal fluid and plasma from mice and rats. DAPT blocks Notch signaling which promotes neuronal differentiation of precursor cells. Enhances iPS cells without oncogenes KLF and CMYC. Cell permeable.

### Application Procedures

First dissolved in DMSO (up to 18 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 3 months.

**For research use only.**