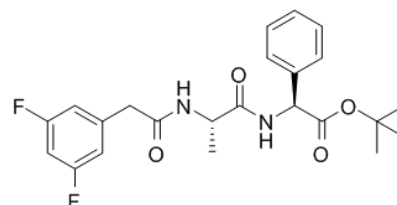


**Product Name** : DAPT  
**Cat. No.** : PC-43337  
**CAS No.** : 208255-80-5  
**Molecular Formula** : C<sub>23</sub>H<sub>26</sub>F<sub>2</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 432.4604  
**Target** :  $\gamma$ -secretase  
**Solubility** : DMSO:  $\geq$  215 mg/mL



## Biological Activity

DAPT (GSI-IX, GSI IX) is a small molecule  **$\gamma$ -secretase** inhibitor that reduces the total beta-amyloid peptide (A $\beta$ ) production with IC<sub>50</sub> of 20 nM in HEK 293 cells, without affecting protein secretion.

DAPT (GSI-IX, GSI IX) decreases the Notch intracellular domain and inhibition of Notch signaling, down-regulates P-glycoprotein and ERCC1 protein in CNE-2 cells.

DAPT (GSI-IX, GSI IX) reduces brain levels of beta-amyloid peptide in brain.

DAPT (GSI-IX, GSI IX) protects brain against cerebral ischemia by down-regulating the expression of Notch 1 and NF- $\kappa$ B in rats.

## References

Dovey HF, et al. *J Neurochem.* 2001 Jan;76(1):173-81.

Li S, et al. *Neurol Sci.* 2012 Dec;33(6):1257-64.

Zhou JX, et al. *Exp Ther Med.* 2012 Feb;3(2):357-361.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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