



## Product Specification Sheet

**Product Name:** DAPT  
**Catalog Number:** C3178-5 (powder)  
C3178-5s (10 mM in DMSO)  
**Package Size:** 5 mg

### Technical information:

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

**CAS #:** 208255-80-5

**Molecular Weight:** 432.46

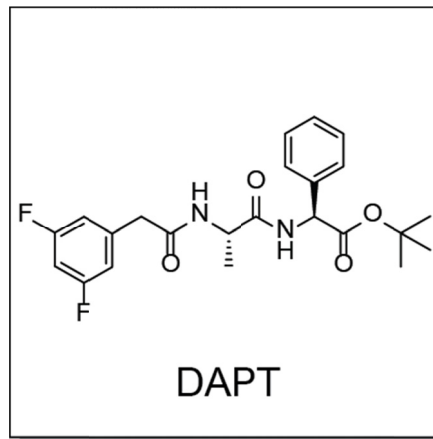
**Purity:** >98%

**Formulation:** White solid

**Solubility:** Soluble in DMSO up to 35 mM

**Chemical Name:** N-[(3,5-Difluorophenyl)acetyl]-L-alanyl-2-phenylglycine-1,1-dimethylethyl ester

**Storage:** Store solid powder at 4°C desiccated;  
Store DMSO solution at -20°C.



- Handling:**
- For C3178-5 (powder), add 1.16 mL of DMSO to make 10 mM solution.
  - For C3178-5s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

**Biological Activity:** DAPT is a  $\gamma$ -secretase inhibitor and indirectly an inhibitor of Notch, a  $\gamma$ -secretase substrate. Since the Notch pathway is involved in the development of both the nervous system and pancreas, DAPT may be useful in modulating Notch activity in embryonic stem cell differentiation studies.

- Reference:**
1. Dovey, HF. et al. Functional gamma-secretase inhibitors reduce beta-amyloid peptide levels in brain. *J Neurochem.* 2001 Jan;76(1):173-81.
  2. Crawford, T. and Roelink, H. (2007) The Notch Response inhibitor DAPT enhances neuronal differentiation in embryonic stem cell-derived embryoid bodies independently of Sonic Hedgehog Signaling. *Dev Dyn.* 2007 Mar;236(3):886-92.

For Technical Support: [technical@cellagentech.com](mailto:technical@cellagentech.com)

*For research use only, not for clinical or diagnostic use.*