DAPT

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Background DAPT is a potent y-secretase inhibitor. Research studies have demonstrated that DAPT inhibits

production of total β -amyloid peptide (A β) and A β 42 in human primary neuronal cultures with an IC $_{50}$ of 115 nM and 200 nM, respectively (1). DAPT-induced inhibition of Notch1 signaling prevents cleavage formation of the Notch1 intracellular domain (NICD), resulting in down regulation of target gene transcription (2). DAPT treatment has been shown to induce apoptosis in Jurkat (2) and lung squamous

cell carcinoma (3) cell lines.

Molecular Formula $C_{23}H_{26}F_2N_2O_4$ **Molecular Weight** 432.5 g/mol

Purity >95%

CAS 208255-80-5

Solubility Soluble in DMSO at 15mg/ml and EtOH at 1mg/ml.

Storage Store lyophilized or in solution at -20°C, desiccated. In lyophilized form, the chemical is stable for 24

months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple

freeze/thaw cycles.

Directions for Use DAPT is supplied as a lyophilized powder. For a 25 mM stock, reconstitute 5 mg in 462.43 µl DMSO.

Working concentrations and length of treatment can vary depending on the desired effect, but are

typically used at 10-50 µM for 12-48 hr, respectively.

Background References 1. Dovey, H.F. et al. (2001) J Neurochem 76, 173-81.

2. Luo, X. et al. (2013) Cancer Cell Int 13, 34.

3. Cao, H. et al. (2012) *APMIS* 120, 441-50.

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