



Data Sheet

Research Use Only

Compound Name

DAPT

Catalog Number

SM15

Alternative Names

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

Activity

DAPT is a potent and specific inhibitor of gamma-secretase. This reduces Ab levels *in vivo* in plasma and cerebrospinal fluid. It blocks the proteolytic processing of neurotrophin receptor alike death domain protein (NRADD).

Effect

DAPT causes neural cells to commit to neuronal differentiation.

Purity

>99%

CAS

208255-80-5

Formula

$C_{23}H_{26}F_2N_2O_4$

Molecular Weight

432.46

Solubility

DMSO

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Dovey, H.F., et al. 2001. J. Neurochem. 76: 173-181. PMID: 11145990
2. Geling, A., et al. 2002. EMBO Rep. 3: 688-694. PMID: 12101103
3. Lanz, T.A., et al. 2003. J. Pharmacol. Exp. Ther. 305: 864-871. PMID: 12626636
4. Gowrishankar, K., et al. 2004. J. Cell. Sci. 117: 4099-4111. PMID: 15280425
5. De Smedt, M., et al. 2005. Blood. 106: 3498-3506. PMID: 16030192
6. El Mouedden, M., et al. 2006. Curr. Pharm. Des. 12: 671-676. PMID: 16472156