

PRODUCT INFORMATION



DAPT Ancillary Material

Item No. 44882

CAS Registry No.: 208255-80-5

Formal Name: N-[2S-(3,5-difluorophenyl)acetyl]-L-alanyl-2-phenyl-glycine, 1,1-dimethylethyl ester

Synonyms: GSI-IX, LY-374973

MF: $C_{23}H_{26}F_2N_2O_4$

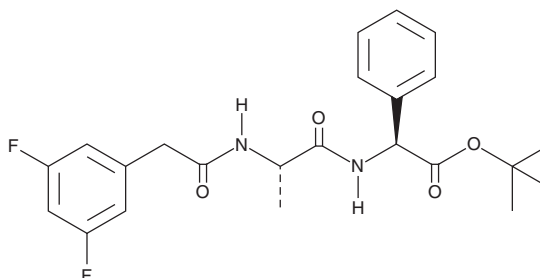
FW: 432.5

Purity: $\geq 98\%$

Supplied as: An amorphous solid

Storage: -20°C

Stability: *batch specific Please see the Certificate of Analysis for retest dating.*



Description

DAPT is an inhibitor of γ -secretase, blocking the production of total A β in human primary neuronal cultures with an IC_{50} value of 115 nM and A β 42 with an IC_{50} value of 200 nM.¹ Through its effects on γ -secretase, DAPT indirectly inhibits Notch, affecting cell signaling and cell differentiation.^{2,3} DAPT Ancillary Material is intended for use in cell, gene, and tissue engineering applications.

This product has been tested in accordance with GMP principles and meets the expectations for clinical cell, gene, and tissue-engineered products in accordance with USP <1043> "Ancillary Materials for Cell, Gene, and Tissue-engineered Products".⁴

References

1. Dovey, H.F., John, V., Anderson, J.P., *et al.* Functional γ -secretase inhibitors reduce β -amyloid peptide levels in brain. *J. Neurochem.* **76**, 173-181 (2001).
2. Kanungo, J., Zheng, Y.-L., Amin, N.D., *et al.* The Notch signaling inhibitor DAPT down-regulates cdk5 activity and modulates the distribution of neuronal cytoskeletal proteins. *J. Neurochem.* **106**, 2236-2248 (2008).
3. De Smedt, M., Hoebeke, I., Reynvoet, K., *et al.* Different thresholds of Notch signaling bias human precursor cells toward B-, NK-, monocytic/dendritic-, or T-cell lineage in thymus microenvironment. *Blood* **106**(10), 3498-3506 (2005).
4. **United States Pharmacopeia.** <1043> Ancillary Materials for Cell, Gene, and Tissue-Engineered Products. In: *USP-NF*. Rockville, MD: United States Pharmacopeial Convention.

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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