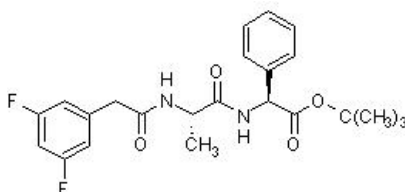


# DAPT, gamma-Secretase inhibitor ab120633

**24 References**    **画像数 3**

### 製品の概要

製品名	DAPT, gamma-Secretase inhibitor
製品の詳細	γ-Secretase inhibitor
生理活性の詳細	γ-Secretase inhibitor. Inhibits Notch signalling <i>in vitro</i> . Inhibits total Aβ and Aβ42 production in human primary cultures (IC <sub>50</sub> values are 115 and 200 nM, respectively) with no effect on APPα and APPβ levels. Blood-brain barrier permeable. 3D Growth matrix component and component of cerebral organoid differentiation media.
精製度	> 99%
CAS 番号	208255-80-5
構造式	



### 製品の特性

体系名	N-[N-(3,5-Difluorophenyl)-L-alanyl]-L-phenylglycine <i>t</i> -butyl ester
分子量	432.47
分子式	C <sub>23</sub> H <sub>26</sub> F <sub>2</sub> N <sub>2</sub> O <sub>4</sub>
PubChem 登録番号	5311272
保存方法	Store at +4°C. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO to 100 mM
使用に関する注意	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
SMILES 線形表記	<chem>CC(C)(OC(=O)C[C@H](N)C(=O)NCC(=O)Cc1ccc(F)cc1F)C1=CC=CC=C1</chem>

(C)C)NC(=O)CC2=CC(=CC(=C2)F)F

由来

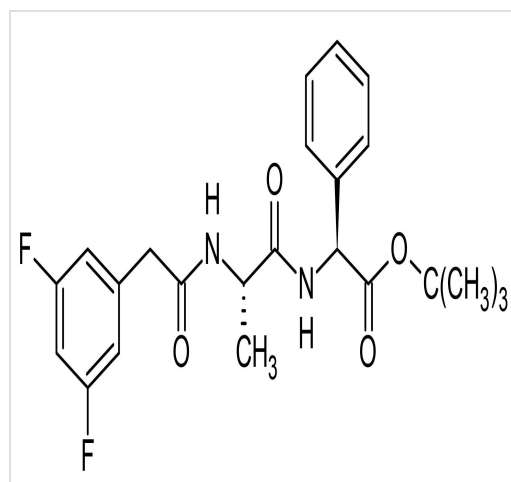
Synthetic

## アプリケーション

**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab120633の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

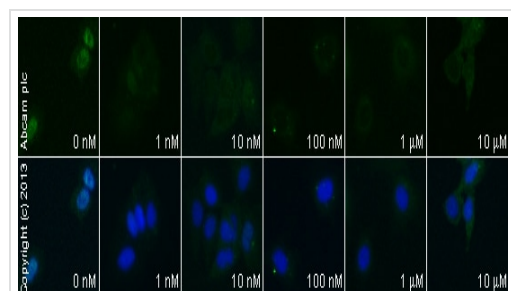
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

## 画像



Chemical Structure - DAPT, gamma-Secretase inhibitor (ab120633)

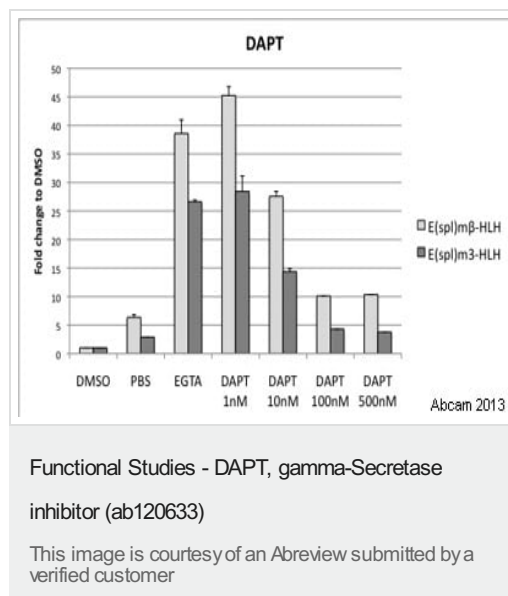
2D chemical structure image of ab120633, DAPT, gamma-Secretase inhibitor



Functional Studies - DAPT, gamma-Secretase inhibitor (ab120633)

**ab81283** staining AKT1 (phospho S473) in MCF7 cells treated with DAPT (ab120633), by ICC/IF. Decrease in expression of AKT1 (phospho S473) correlates with increased concentration of DAPT, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120633 (DAPT) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab81283** (1/200 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



Kc167 cells were treated with varying concentrations of DAPT (ab120633) in DMSO for 16hr at 25°C; DMSO only was used as the negative control. The cells were further incubated for 30 minutes with 4mM EGTA in PBS (in the presence of DAPT), and were then lysed for analysis. To measure Notch activity, Notch targets E(spl)mβ-HLH and E(spl)m3-HLH mRNA levels were assayed. Data shows the fold change of mRNA levels of E(spl)mβ-HLH and E(spl)m3-HLH under different conditions, normalised to DMSO treatment (negative control). Notch activation by EGTA is abrogated by treatment with DAPT.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team