

It is also used as a 3D Growth matrix component and used in cerebral organoid differentiation media.

Solubility & Handling

Storage instructions

+4 °C

Solubility overview

Soluble in DMSO (100mM)

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

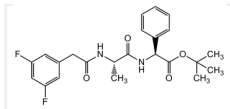
Chemical name

N-[N-(3,5-Difluorophenacetyl-L-alanyl)]-S-phenylglycine tbutyl ester

Molecular Weight

432.5

Chemical structure



Molecular Formula

C₂₃H₂₆F₂N₂O₄

CAS Number

208255-80-5

PubChem identifier

5311272

SMILES

C[C@@H](C(=O)N[C@@H](C1=CC=CC=C1)C(=O)OC(C)(C)C)NC(=O)CC2=CC(=CC(=C2)F)F

Source

Synthetic

InChi

InChI=1S/C23H26F2N2O4/c1-14(26-19(28)12-15-10-17(24)13-18(25)11-15)21(29)27-20(16-8-6-5-7-9-16)22(30)31-23(2,3)4/h5-11,13-14,20H,12H2,1-4H3,(H,26,28)(H,27,29)/t14-,20-/m0/s1

InChiKey

DWJXYEABWRJFSP-XOBRGWDASA-N

MDL number

MFC04974585

Appearance

White to off-white solid

References

The Notch signaling inhibitor DAPT down-regulates cdk5 activity and modulates the distribution of neuronal cytoskeletal proteins.

Kanungo et al (2008) J Neurochem 106(5)

PubMedID

18662245

The notch response inhibitor DAPT enhances neuronal differentiation in embryonic stem cell-derived embryoid bodies independently of sonic hedgehog signaling.

Crawford and Roelink (2007) Dev Dyn 236(3)

PubMedID

17295317

Functional gamma-secretase inhibitors reduce beta-amyloid peptide levels in brain.

Dovey et al (2001) J Neurochem 76(1)

PubMedID

11145990

Lingo-1 shRNA and Notch signaling inhibitor DAPT promote differentiation of neural stem/progenitor cells into neurons.

Wang et al (2015) Brain Res 8993(15)

PubMedID

26607252