



Compound E

Data Sheet

Catalog Number:	MC11029	Product Type:	Small Molecule
Bio-Activity:	Notch pathway inhibitor; Gamma secretase inhibitor	CAS #:	209986-17-4
Research Categories:	Neuroscience, stem cells, neurodegeneration, cancer	Chemical Name:	N-[(1S)-2-[[((3S)-2,3-Dihydro-1-methyl-2-oxo-5-phenyl-1H-1,4-benzodiazepin-3-yl]amino]-1-methyl-2-oxoethyl]-3,5-difluorobenzeneacetamide
Solubility:	Soluble in DMSO (up to 25 mg/ml)	Molecular Formula:	C ₂₇ H ₂₄ F ₂ N ₄ O ₃
Purity:	> 98%	Molecular Weight:	490.5
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

A potent and selective, cell permeable inhibitor of γ -secretase that inhibits the cleavage of both amyloid precursor protein and Notch, IC₅₀s ~ 3 nM [1,2]. Inhibits growth and induces differentiation of neuroblastoma cells [3]. Induces stem cell neuronal differentiation [4].

References:

- 1) D Beher et al. J. Biol. Chem. 2001 276:45394
- 2) G Zhao et al. J. Biol. Chem. 2004 279:50647
- 3) G Ferrari-Toninelli et al. Neuro. Oncol. 2010 12:1231
- 4) W Li et al. Proc. Natl. Acad. Sci. USA. 2011 108:8299

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