

Product Name : MRK-003

Synonyms : MRK 003;MRK003

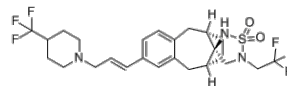
Cat No. : M15359

CAS Number : 623165-93-5

Molecular Formula : C₂₅H₃₁F₆N₃O₂S

Formula Weight : 551.59

Chemical Name : (3R,6'S,9'R)-5-(2,2,2-trifluoroethyl)-2'-((E)-3-(4-(trifluoromethyl)piperidin-1-yl)prop-1-en-1-yl)-5',6',7',8',9',10'-hexahydrospiro[[1,2,5]thiadiazolidine-3,11'-[6,9]methanobenzo[8]annulene] 1,1-dioxide



Description : A potent γ -secretase inhibitor with IC₅₀ of 0.4 nM, inhibition of A β secretion from SH-SY5Y SPA4CT cells; inhibits the γ -secretase-mediated cleavage of the Notch receptor, reduces tumor cell proliferation, inhibits serum independence, and induces apoptosis in vitro and in vivo using mouse xenograft models. Pancreatic Cancer Preclinical

Pathway : Wnt/Notch/Hedgehog

Target : γ -secretase

Receptor : γ -secretase

Solubility : —

SMILES : FC1CCN(C/C=C/C2=CC=C3C(C(C@4[H])CC(C@([C@@]4(CN5CC(F)(F)F)NS5(=O)=O)([H])C3)=C2)CC1)(F)F

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Lewis HD, et al. Chem Biol. 2007 Feb;14(2):209-19. | 2. Sparey T, et al. Bioorg Med Chem Lett. 2005 Oct 1;15(19):4212-6. | 3. Konishi J, et al. Cancer Res. 2007 Sep 1;67(17):8051-7.