PRODUCT INFORMATION

MRK-560
Item No. 27599

CAS Registry No.: 677772-84-8
Formal Name: N-[cis-4-[[4-chlorophenyl] sulfonyl]-4-(2,5-difluorophenyl) cyclohexyl]-1,1,1-trifluoromethanesulfonamide
MF: C_{19}H_{17}ClF_{5}NO_{4}S_{2}
FW: 517.9
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MRK-560 is supplied as a solid. A stock solution may be made by dissolving the MRK-560 in the solvent of choice. MRK-560 is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of MRK-560 in these solvents is approximately 50 and 100 mM, respectively.

Description

MRK-560 is a potent inhibitor of γ-secretase (IC_{50} = 0.65 nM).\textsuperscript{1} In vivo, MRK-560 (1-10 mg/kg) reduces diethanolamine-soluble amyloid-β (1-40) (Aβ40) levels in APP-YAC transgenic mouse brain. MRK-560 reduces brain and cerebrospinal fluid Aβ40 levels in rats (ED_{50}s = 6 and 10 mg/kg, respectively).\textsuperscript{2} It also decreases brain-soluble Aβ40 and Aβ42 levels and recovers hippocampal long-term potentiation in the Tg2576 transgenic mouse model of Alzheimer’s disease.\textsuperscript{3}

References

