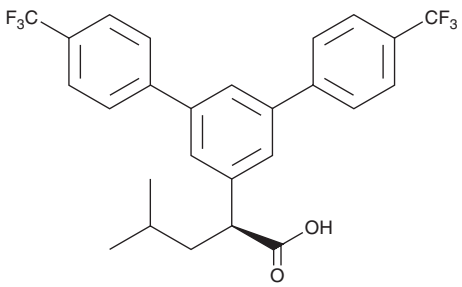
PRODUCT INFORMATION

JNJ-40418677

Item No. 21869

CAS Registry No.:	1146594-87-7
Formal Name:	αS-(2-methylpropyl)-4,4''-*bis*(trifluoromethyl)-[1,1':3',1''-terphenyl]-5'-acetic acid
MF:	$C_{26}H_{22}F_6O_2$
FW:	480.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 254 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

JNJ-40418677 is supplied as a crystalline solid. A stock solution may be made by dissolving the JNJ-40418677 in the solvent of choice, which should be purged with an inert gas. JNJ-40418677 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of JNJ-40418677 in DMF is approximately 25 mg/ml and approximately 10 mg/ml in ethanol and DMSO.

Description

JNJ-40418677 is a modulator of γ-secretase.[1] It reduces the levels of amyloid-β (1-42) (Aβ42; Item No. 20574) in a cell-free γ-secretase modulation assay. It also reduces the secretion of Aβ42, but not total Aβ, in SK-N-BE(2) human neuroblastoma cells expressing amyloid precursor protein (APP; mean IC_{50} = 200 nM) and in primary rat cortical neurons (mean IC_{50} = 185 nM). JNJ-40418677 (100 and 300 mg/kg) reduces the level of Aβ42 in wild-type mouse brain. It decreases brain levels of Aβ42, Aβ40, and Aβ38 in the deposited fraction, and Aβ42 and Aβ40 in the soluble fraction, in the Tg2576 mouse model of Alzheimer's disease when administered at doses of 60 and 120 mg/kg per day in the diet for seven months. It also reduces increases in the number of amyloid plaques in Tg2576 mouse brain compared to vehicle control animals.

Reference

1. Van Broeck, B., Chen, J.-M., Tréton, G., *et al.* Chronic treatment with a novel γ-secretase modulator, JNJ-40418677, inhibits amyloid plaque formation in a mouse model of Alzheimer's disease. *Br. J. Pharmacol.* **163(2)**, 375-389 (2011).

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