Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

MK-0752

Catalog No: tcsc0253

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
471905-41-6

Formula:
$C_{21}H_{21}ClF_2O_4S$

Pathway:
Stem Cell/Wnt;Neuronal Signaling

Target:
γ-secretase;γ-secretase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
442.9

Product Description

MK-0752 is a moderately potent γ-secretase inhibitor, which reduces Aβ40 production with IC50 of 5 nM.

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IC50 value: 5 nM (reduces Aβ40 production) [1]

Target: γ-secretase

in vitro: MK-0752 is identified as a moderately potent γ-secretase inhibitor, which reduces Aβ40 in a dose-dependent manner with an IC50 of 5 nM in human SH-SY5Y cells [1]. In vitro, MK-0752 blocks Notch-intracellular domain (ICD) cleavage and its subsequent nuclear translocation [2].

in vivo: MK-0752 (240 mg/kg) reduces the generation of newly produced Aβ with 90% decrease of AUV in the brain of rhesus monkeys. In addition, MK-0752 treatment increases levels of Aβ 1-14, Aβ 1-15, and Aβ 1-16 , while decreases levels of Aβ 1-17 [1]. In guinea-pigs, oral administration of MK-0752 (10 mg/kg -30 mg/kg) results in the dose-dependent reduction of Aβ40 in plasma, brain and cerebrospinal fluid (CSF) with IC50 of 440 nM in brain [2].