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

RO4929097

Catalog No: tcsc0480

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
847925-91-1

Formula:
$C_{22}H_{20}F_5N_3O_3$

Pathway:
Stem Cell/Wnt;Neuronal Signaling;Stem Cell/Wnt

Target:
γ-secretase;γ-secretase;Notch

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 49 mg/mL (104.39 mM)

Alternative Names:
RG-4733

Observed Molecular Weight:
469.4

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Product Description

RO4929097 (RG-4733) is a **γ secretase** inhibitor with **IC_{50}** of 4 nM, inhibiting cellular processing of Aβ40 and Notch with EC_{50} of 14 nM and 5 nM, respectively.

IC50 & Target: IC50: 4 nM (γ secretase)

In Vitro: RO4929097 inhibits the production of ICN reducing the expression of the downstream Notch target, Hes1, producing a less transformed morphology in A549 cells. RO4929097 inhibits Notch processing in human tumor-derived cells[1]. RO4929097 (1 μM) inhibits the growth of breast cancer cells, and the inhibition is 20% for SUM149 and 10% for SUM190 cells. RO4929097 does not have a marked effect in invasiveness of SUM149 cells. RO4929097 significantly reduces colony formation by both cell lines with the effect being more notable in SUM149 than by SUM190 cells[2]. RO4929097 inhibits proliferation, anchorage independent growth, and sphere formation of primary melanoma cells in vitro[3].

In Vivo: RO4929097 (3-60 mg/kg, p.o.) results in significant tumor growth inhibition in nude mice bearing A549 NSCLC xenografts, compared with vehicle-treated animals. When mice are treated with 60 mg/kg RO4929097 twice daily with the 7+/14- schedule, treatment initially causes regression of established A549 tumors[1]. RO4929097 impairs the growth of primary melanoma cells in vivo. The percentage of secondary tumors formed by RO4929097-treated cells is lower; the secondary tumors formed by RO4929097-treated cells are smaller; a significant delay in tumor formation by the RO4929097-treated cells compared to the vehicle-treated ones is observed in mice injected with 10^4 cells in vivo[3].