



RO4929097

**Catalog No: tcsc0480** 

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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:** 

 $\gamma$ -secretase; $\gamma$ -secretase;Notch

**Purity / Grade:** 

>98%

**Solubility:** 

DMSO :  $\geq$  49 mg/mL (104.39 mM)

**Alternative Names:** 

RG-4733

**Observed Molecular Weight:** 

469.4





## **Product Description**

RO4929097 (RG-4733) is a  $\gamma$  secretase inhibitor with IC<sub>50</sub> of 4 nM, inhibiting cellular processing of A $\beta$ 40 and Notch with EC<sub>50</sub> 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<sup>[1]</sup>. RO4929097 (1  $\mu$ M) 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<sup>[2]</sup>. RO4929097 inhibits proliferation, anchorage independent growth, and sphere formation of primary melanoma cells in vitro<sup>[3]</sup>.

*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<sup>[1]</sup>. 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<sup>4</sup> cells in vivo<sup>[3]</sup>.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!