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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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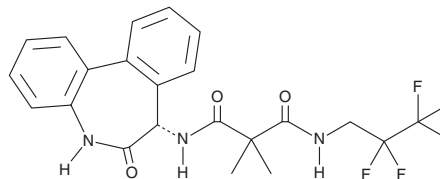
PRODUCT INFORMATION



Ro 4929097
Item No. 19996

CAS Registry No.: 847925-91-1
Formal Name: N¹-[(7S)-6,7-dihydro-6-oxo-5H-dibenz[b,d]azepin-7-yl]-2,2-dimethyl-N³-(2,2,3,3,3-pentafluoropropyl)-propanediamide

MF: C₂₂H₂₀F₅N₃O₃
FW: 469.4
Purity: ≥98%
UV/Vis.: λ_{max}: 230 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Ro 4929097 is supplied as a crystalline solid. A stock solution may be made by dissolving the Ro 4929097 in the solvent of choice. Ro 4929097 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of Ro 4929097 in these solvents is approximately 10, 15, and 25 mg/ml, respectively.

Ro 4929097 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Ro 4929097 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Ro 4929097 has a solubility of approximately 0.16 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Ro 4929097 is a potent inhibitor of γ -secretase (IC₅₀ = 4 nM) that blocks both A β 40 and Notch processing (IC₅₀s = 14 and 5 nM, respectively).¹ It displays greater than 100-fold selectivity for γ -secretase over a panel of 75 other enzymes, receptors, and ion channels. Ro 4929097 does not block tumor cell growth or induce apoptosis but instead produces a less transformed, flattened, slower-growing phenotype.¹ It is orally active against cancer xenograft models, altering gene expression related to angiogenesis and cell differentiation.¹ Ro 4929097 also reduces tumor initiating potential of melanoma cells *in vivo* by blocking Notch-dependent gene expression.²

References

1. Luistro, L., He, W., Smith, M., *et al.* Preclinical profile of a potent γ -secretase inhibitor targeting notch signaling with *in vivo* efficacy and pharmacodynamic properties. *Cancer Res.* **69(19)**, 7620-7680 (2009).
2. Huynh, C., Poliseno, L., Segura, M. F., *et al.* The novel γ secretase inhibitor RO4929097 reduces the tumor initiating potential of melanoma. *PLoS One* **6(9)**, (2011).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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