

Certificate of Analysis

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Product Name: RO 4929097

Catalog No.: 8906

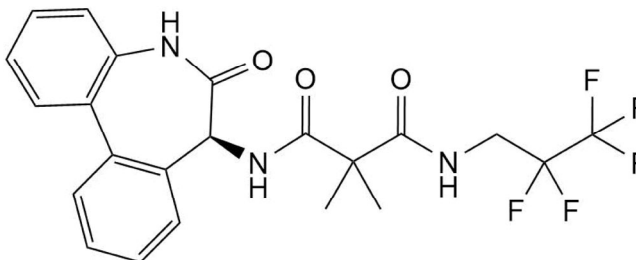
Batch No.: 1

CAS Number: 847925-91-1

IUPAC Name: 2,2-Dimethyl-*N*-((*S*)-6-oxo-6,7-dihydro-5*H*-dibenzo[*b,d*]azepin-7-yl)-*N'*-(2,2,3,3,3-pentafluoropropyl)malonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₀F₅N₃O₃
Batch Molecular Weight: 469.41
Physical Appearance: White solid
Solubility: DMSO to 50 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -46.7 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	56.29	4.29	8.95
Found	56.42	4.28	8.97

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

RO 4929097 is a potent and selective γ -secretase inhibitor (IC_{50} = 4 nM), exhibiting over 100-fold selectivity against a panel of 75 different proteins. Inhibits cellular processing of Notch and A β 40 (IC_{50} = 5 nM and 14 nM, respectively). In tumor cells, inhibition of Notch processing results in lowered expression of HES1. In multiple xenograft models, RO 4929097 displays antitumour effects with no associated body weight loss or Notch-related toxicities. In melanoma cell lines, it inhibits tumor formation and blocks invasive growth pattern of metastatic melanoma. Can also be used to induce differentiation of iEM cells into luminal c... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

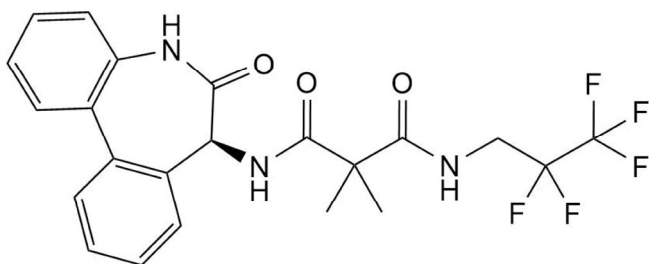
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Batch Molecular Weight: 469.41

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Loh et al (2025) Protocol for efficient generation of human artery and vein endothelial cells from pluripotent stem cells STAR Protoc. **6**. PMID: 39705146.

Hayakawa et al (2022) Establishment and characterization of immortalized sweat gland myoepithelial cells. Sci.Rep **12**. PMID: 34997030.

Sahebjam et al (2013) A phase I study of the combination of ro4929097 and cediranib in patients with advanced solid tumours (PJC-004/NCI 8503). BJC **109** 943. PMID: 23868004.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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