**γ-Secretase Inhibitor RO4929097**

**Chemical 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

<table>
<thead>
<tr>
<th>Molecular Weight:</th>
<th>469.40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula:</td>
<td>C22H20F5N3O3</td>
</tr>
<tr>
<td>Purity:</td>
<td>≥98%</td>
</tr>
<tr>
<td>CAS#:</td>
<td>847925-91-1</td>
</tr>
<tr>
<td>Solubility:</td>
<td>DMSO up to 100 mM</td>
</tr>
</tbody>
</table>
| Storage          | Powder: 4°C 1 year  
DMSO: 4°C 3 month  
-20°C 1 year |

**Biological Activity:**

RO4929097 is a highly potent and selective γ-secretase inhibitor with an IC₅₀ ~4 nM. It can cause a dramatic reduction of the intracellular Notch level and lead to significantly decreased expression of the Notch transcriptional target genes, such as Hes1. It exhibits potent inhibitory activity of Notch signaling in tumor cells. Currently RO4929097 is in multiple phase I/II clinical trials to treat cancer.

**How to Use:**

**In vitro:** RO4929097 was used at 1-10 µM in vitro.

**In vivo:** RO4929097 was administered orally at 10 mg/kg with an intermittent or daily schedule and showed anti-tumor activity in multiple tumor xenograft models.

**Reference:**


Products are for research use only. Not for human use.