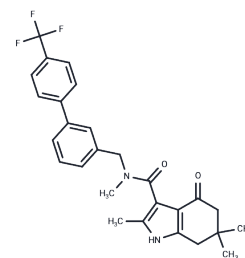


## TGFβRII-IN-3

### Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 2351149-20-5  |
| Formula:          | C27H27F3N2O2  |
| Molecular Weight: | 468.51  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



### Biological Description

|               |  |
|---------------|--|
| Description   | TGFβRII-IN-3 (Compound 2r) is a selective inhibitor of the TGFβ type II receptor (TGFβ RII) with an IC50 of 4.1 μM. It inhibits TGFβ signaling by promoting protein degradation of TGFβ RII. Additionally, TGFβRI-IN-7 can block the transition from endothelial to mesenchymal states and inhibit cell migration, making it useful for cancer research.   |
| Targets(IC50) | TGF-beta/Smad  |
| In vitro      | TGFβRII-IN-3 effectively inhibits the activity of the TGFβ signaling pathway in A549 cells by reducing the phosphorylation levels of Smad2 at concentrations of 5-15μM over 24 hours and selectively degrades TGFβ RII. At concentrations of 2.5-10μM over 48 hours, it also prevents TGFβ1-induced loss of E-cadherin and suppresses the upregulation of Snail and N-cadherin in A549 cells. Furthermore, TGFβRII-IN-3 at 5μM over 48 hours hampers the migration and morphological changes of A549 and H1299 cells by inhibiting TGFβ signal transduction. |

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.1344 mL | 10.6721 mL | 21.3443 mL |
| 5 mM  | 0.4269 mL | 2.1344 mL  | 4.2689 mL  |
| 10 mM | 0.2134 mL | 1.0672 mL  | 2.1344 mL  |
| 50 mM | 0.0427 mL | 0.2134 mL  | 0.4269 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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