

Product Name: WNTinib

Catalog No.: 8106

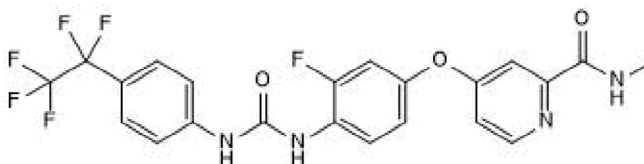
Batch No.: 1

CAS Number: 2770091-44-4

IUPAC Name: 4-[3-Fluoro-4-[[[4-(1,1,2,2,2-pentafluoroethyl)phenyl]amino]carbonyl]amino]phenoxy]-*N*-methyl-2-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₂ H ₁₆ F ₆ N ₄ O ₃ .
Batch Molecular Weight:	498.39
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.6% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	53.02	3.24	11.24
Found	52.92	3.17	11.15

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

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Description:

WNTinib is a multi-kinase inhibitor with selectivity for mutant β -catenin (CTNNB1) in hepatocellular carcinoma compared to wild type hepatocytes (IC₅₀ ranges are 0.36 μ M-0.54 μ M in primary organoids; 0.28 μ M-1 μ M in primary human HCC cell lines and 0.45 μ M-2.3 μ M in human cell lines). Also inhibits VEGFR2, PDE6D and VEGFR1 (IC₅₀ values are 0.3 μ M, 0.3 μ M and 0.6 μ M respectively). Downregulates WNT and phospho-EZH2, upregulates trimethylation of H3K27 and normalises expression of apoptotic genes.

Physical and Chemical Properties:

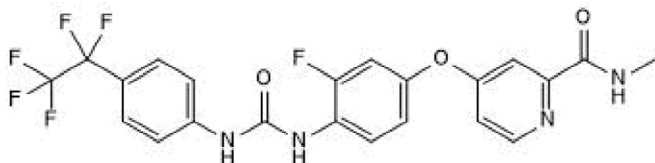
Batch Molecular Formula: C₂₂H₁₆F₆N₄O₃.

Batch Molecular Weight: 498.39

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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.

References:

Rialdi *et al* (2023) WNTinib is a multi-kinase inhibitor with specificity against β -catenin mutant hepatocellular carcinoma. *Nat.Cancer* **4** 1157. PMID: 37537299.

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