

Certificate of Analysis

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Product Name: VT 104

Catalog No.: 8176

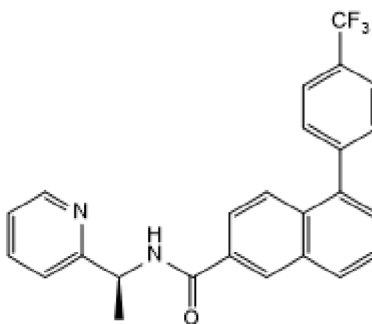
Batch No.: 1

CAS Number: 2417718-25-1

IUPAC Name: *N*-[(1*S*)-1-(2-Pyridinyl)ethyl]-5-[4-(trifluoromethyl)phenyl]-2-naphthalenecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₁₉F₃N₂O.
Batch Molecular Weight: 420.43
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
Chiral HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	71.42	4.56	6.66
Found	70.59	4.52	6.58

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

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IUPAC Name: *N*-[(1*S*)-1-(2-Pyridinyl)ethyl]-5-[4-(trifluoromethyl)phenyl]-2-naphthalenecarboxamide

Description:

VT 104 is a potent pan-TEAD (transcriptional enhanced associate domain) inhibitor (IC_{50} = 10.4 nM). VT 104 inhibits YAP/TAZ-TEAD promoted gene transcription by preventing the association between YAP/TAZ and TEAD. VT 104 blocks TEAD auto-palmitoylation. In vitro, VT 104 inhibits NF2-deficient mesothelioma cell proliferation, and growth of subcutaneous tumor xenografts in vivo. VT 104 is orally bioavailable.

Physical and Chemical Properties:

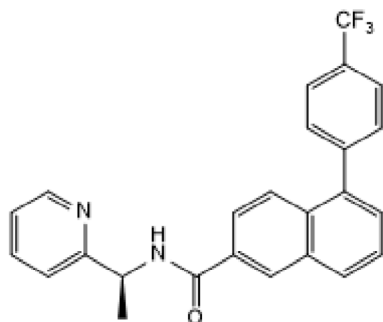
Batch Molecular Formula: $C_{25}H_{19}F_3N_2O$.

Batch Molecular Weight: 420.43

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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.

References:

Tang et al (2021) Small molecule inhibitors of TEAD auto-palmitoylation selectively inhibit proliferation and tumor growth of NF2-deficient mesothelioma. *Mol.Cancer Ther.* **20** 986. PMID: 33850002.

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