

Product Name: VU 6015929

Catalog No.: 7728

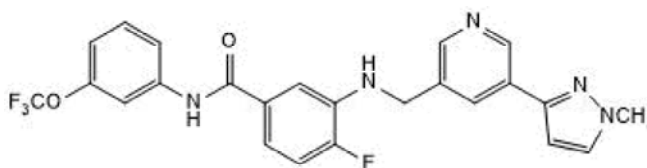
Batch No.: 1

CAS Number: 2442597-56-8

IUPAC Name: 4-Fluoro-3-[[[5-(1-methyl-1*H*-pyrazol-3-yl)-3-pyridinyl]methyl]amino]-*N*-[3-(trifluoromethoxy)phenyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₄ H ₁₉ F ₄ N ₅ O ₂
Batch Molecular Weight:	485.43
Physical Appearance:	Off-white solid
Solubility:	DMSO to 100 mM ethanol to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 100.0% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	59.38	3.95	14.43
Found	59.27	3.9	14.19

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

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Description:

VU 6015929 is a potent and selective discoidin domain receptor 1/2 (DDR1/2) inhibitor (IC₅₀ = 4.67 nM and 7.39 nM for DDR1 and DDR2, respectively). VU 6015929 blocks collagen-induced DDR1 activation and collagen-IV production in HEK293 cells.

Physical and Chemical Properties:

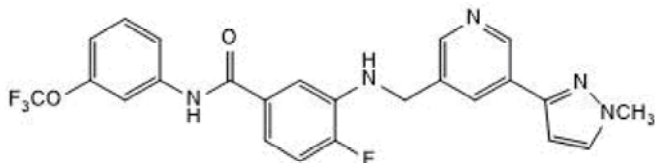
Batch Molecular Formula: C₂₄H₁₉F₄N₅O₂

Batch Molecular Weight: 485.43

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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. Our standard recommendations are:

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:

Sun (2021) Tumour DDR1 promotes collagen fibre alignment to instigate immune exclusion. *Nature* **599** 673. PMID: 34732895.

Jeffries et al (2019) Discovery of VU6015929: a selective discoidin domain receptor 1/2 (DDR1/2) inhibitor to explore the role of DDR1 in antifibrotic therapy. *ACS Med.Chem.Lett.* **11** 29. PMID: 31938459.

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