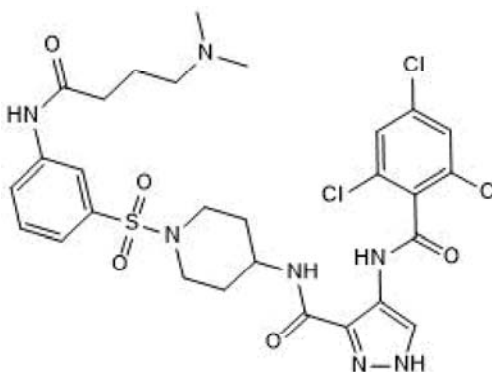


Product Name: FMF-04-159-R **Catalog No.:** 7159 **Batch No.:** 1
CAS Number: 2741262-15-5
IUPAC Name: *N*-(1-((3-(4-(Dimethylamino)butanamido)phenyl)sulfonyl)piperidin-4-yl)-4-(2,4,6-trichlorobenzamido)-1*H*-pyrazole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₂Cl₃N₇O₅S·1/4H₂O
Batch Molecular Weight: 689.52
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 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.77	4.75	14.22
Found	48.63	4.74	14.17

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

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1

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Description:

FMF-04-159-R is a potent inhibitor of CDK16 and CDK14 (IC₅₀ values are 6 and 140 nM, respectively in kinase activity assay; IC₅₀ = 563 nM for CDK14 in BRET assay). Also binds CDK2 (IC₅₀ = 493 nM). Inhibition reversible upon compound wash-out. Control for FMF-04-159-2 (Cat. No. 7158).

Physical and Chemical Properties:

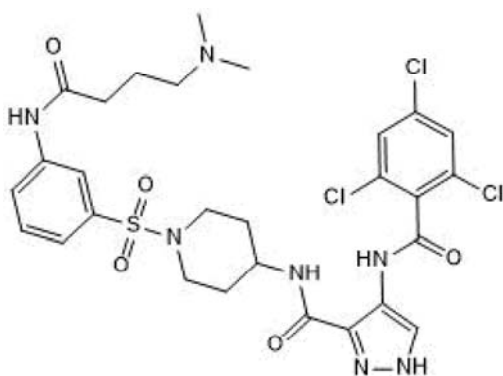
Batch Molecular Formula: C₂₈H₃₂Cl₃N₇O₅S.¼H₂O

Batch Molecular Weight: 689.52

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. 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:

Ferguson *et al* (2019) Discovery of covalent CDK14 inhibitors with pan-TAIRE family specificity. *Cell Chem.Biol.* **26** 804. PMID: 30930164.

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