

**Product Name:** FMF-04-159-R

**Catalog No.:** 7159

**Batch No.:** 1

**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:** C<sub>28</sub>H<sub>32</sub>Cl<sub>3</sub>N<sub>7</sub>O<sub>5</sub>S·<sup>1</sup>/<sub>4</sub>H<sub>2</sub>O

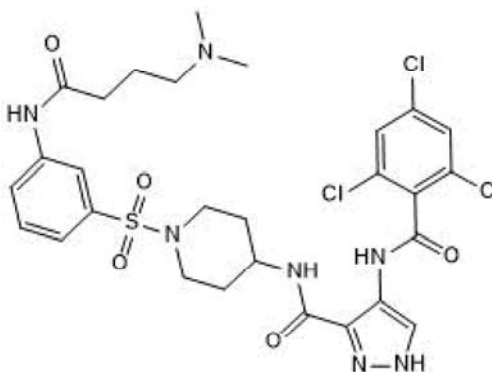
**Batch Molecular Weight:** 689.52

**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

**<sup>1</sup>H 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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**Description:**

Potent inhibitor of CDK16 and CDK14 (IC<sub>50</sub> values are 6 and 140 nM, respectively in kinase activity assay; IC<sub>50</sub> = 563 nM for CDK14 in BRET assay). Also binds CDK2 (IC<sub>50</sub> = 493 nM). Inhibition reversible upon compound wash-out. Control for FMF-04-159-2 (Cat. No. 7158).

**Physical and Chemical Properties:**

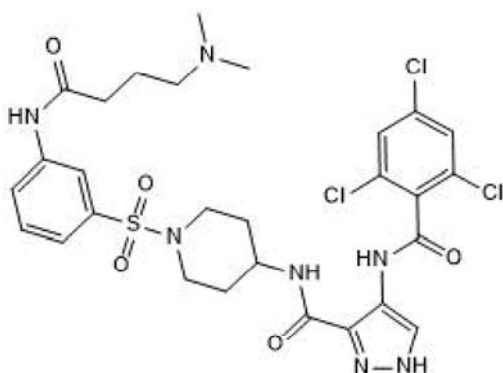
Batch Molecular Formula: C<sub>28</sub>H<sub>32</sub>Cl<sub>3</sub>N<sub>7</sub>O<sub>5</sub>S·¼H<sub>2</sub>O

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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