

Product Name: VVD-214

Catalog No.: 9027

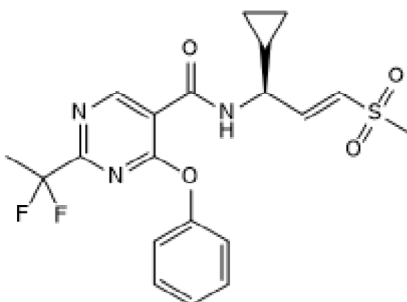
Batch No.: 1

CAS Number: 3026500-20-6

IUPAC Name: *N*-[(1*S*,2*E*)-1-Cyclopropyl-3-(methylsulfonyl)-2-propen-1-yl]-2-(1,1-difluoroethyl)-4-phenoxy-5-pyrimidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁F₂N₃O₄S
Batch Molecular Weight: 437.46
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 54.91 | 4.84 | 9.61 |
| Found | 55.03 | 4.85 | 9.57 |

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

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Description:

VVD-214 is a potent werner syndrome helicase (WRN) covalent allosteric inhibitor (IC₅₀ = 0.13 μM and 2.4 μM with and without ATP, respectively). The selective binding of VVD-214 to cysteine C727 of WRN triggers double-stranded DNA breaks, nuclear swellings, cell death and tumor regression in microsatellite instability-high (MSI-H) colorectal cancer models. Highly stable in hepatocytes and whole blood, VVD-214 is orally bioavailable.

Physical and Chemical Properties:

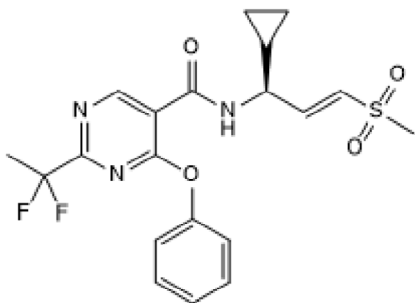
Batch Molecular Formula: C₂₀H₂₁F₂N₃O₄S

Batch Molecular Weight: 437.46

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

Licensing Information:

Sold with permission from Vividion Therapeutics

References:

Kikuchi *et al* (2025) Identification of VVD-214/RO7589831, a clinical-stage, covalent allosteric inhibitor of WRN helicase for the treatment of MSI-high cancers. *J.Med.Chem.* **68** 25912. PMID: 40964743.

Baltgalvis *et al* (2024) Chemoproteomic discovery of a covalent allosteric inhibitor of WRN helicase. *Nature* **629** 435. PMID: 38658751.

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